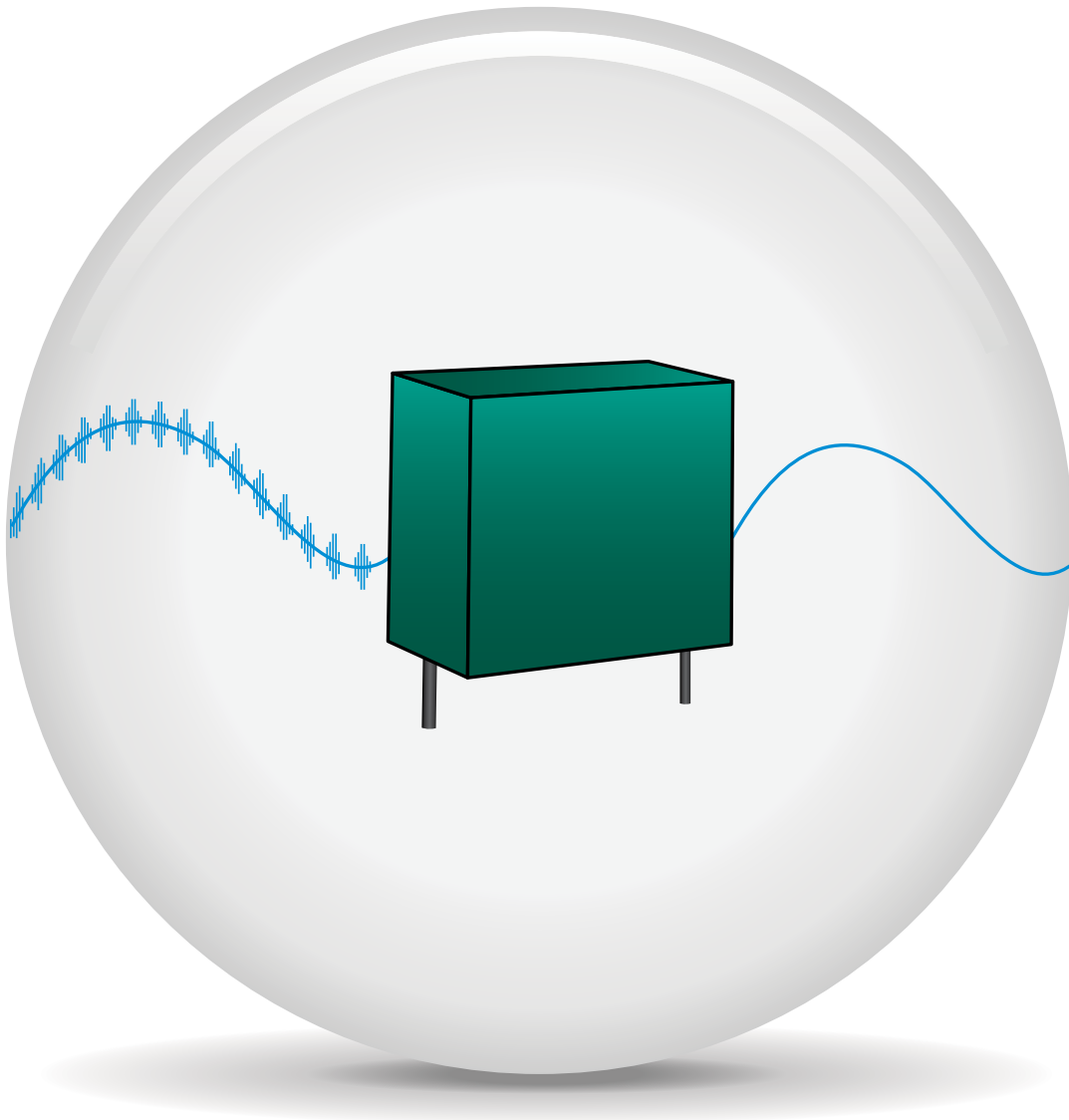


New Film Capacitor Products

General Purpose, Pulse & AC Mains EMI Suppression



One world. One KEMET.

The Capacitance Company
KEMET
CHARGED®

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F871 Series Polypropylene Metallized Film, Class X1, 330 VAC



Overview

Metallized polypropylene film encapsulated with self-extinguishing resin in a box of material recognized to UL 94 V-0.

Applications

For worldwide use as electromagnetic interference suppressor in all X1 and across-the-line applications. Not for use in series with the mains.

Benefits

- Approvals: ENEC, UL, cUL, CQC
- Rated voltage: 330 VAC 50/60 Hz
- Capacitance range: 0.001 – 12 μ F
- Lead spacing: 10 – 37.5 mm
- Capacitance tolerance: $\pm 20\%$, $\pm 10\%$, $\pm 5\%$ on request
- Climatic category 40/110/56, IEC 60068-1
- Tape and reel in accordance with IEC 60286-2
- RoHS Compliant and lead-free terminations
- Operating temperature range of -40°C to +110°C
- 100% screening factory test at 2,500 VDC



Part Number System

F	871	B	K	104	M	330	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Voltage (VAC)	Lead and Packaging Code
F = Film	X1, Metallized Polypropylene	A = 10 B = 15 D = 22.5 F = 27.5 R = 37.5	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	330	See Ordering Options Table

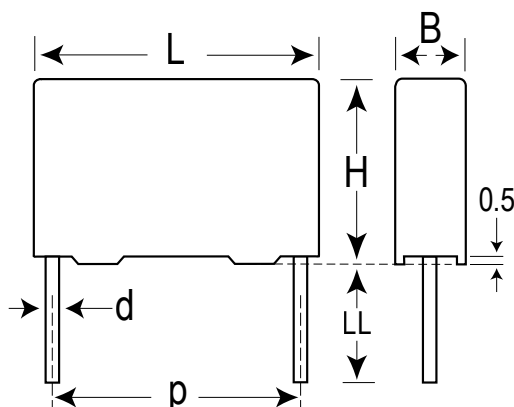
Ordering Options Table

Lead Spacing Nominal (mm)	Type of Leads and Packaging	Lead Length (mm)	Lead and Packaging Code
10	Standard Lead and Packaging Options		
	Bulk (Bag) – Short Leads	4 +2/-0	C
	Bulk (Bag) – Long Leads	17 +0/-1	A
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Other Lead and Packaging Options		
	Bulk (Bag) – Max Length Leads	20 +5/-0	ALL0L
	Ammo Pack	H ₀ = 18.5 +/-0.5	R
	Tape & Reel (Large Reel)	H ₀ = 18.5 +/-0.5	P

Ordering Options Table cont'd

Lead Spacing Nominal (mm)	Type of Leads and Packaging	Lead Length (mm)	Lead and Packaging Code
15	Standard Lead and Packaging Options		
	Bulk (Bag) – Short Leads	4 +2/-0	C
	Bulk (Bag) – Long Leads	17 +0/-1	A
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Pizza Pack	4 +2/-0	Z
	Other Lead and Packaging Options		
	Bulk (Bag) – Max Length Leads	25 +5/-0	ALR0L
	Ammo Pack	H ₀ = 18.5 +/-0.5	R
	Tape & Reel (Large Reel)	H ₀ = 18.5 +/-0.5	P
22.5	Standard Lead and Packaging Options		
	Bulk (Tray) – Short Leads	4 +2/-0	C
	Bulk (Tray) – Long Leads	17 +0/-1	A
	Pizza Pack	4 +2/-0	Z
	Other Lead and Packaging Options		
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Tape & Reel (Large Reel)	H ₀ = 18.5 +/-0.5	P
	Ammo Pack	H ₀ = 18.5 +/-0.5	R
27.5	Standard Lead and Packaging Options		
	Bulk (Tray) – Short Leads	4 +2/-0	C
	Bulk (Tray) – Long Leads	17 +0/-1	A
	Pizza Pack	4 +2/-0	Z
37.5	Standard Lead and Packaging Options		
	Bulk (Tray) – Short Leads	4 +2/-0	C
	Bulk (Tray) – Long Leads	17 +0/-1	A
	Pizza Pack	4 +2/-0	Z

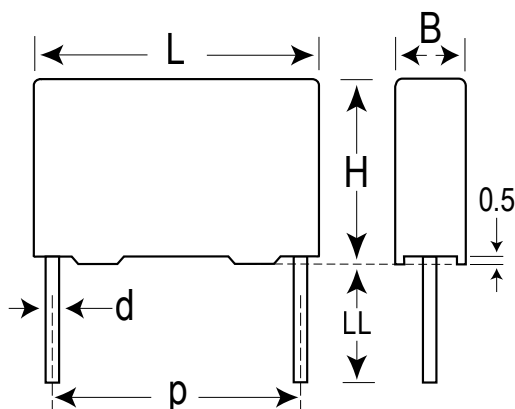
Dimensions – Millimeters



Size Code	Version	p		B		H		L		d	
		Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
AG		10.0	+/-0.4	4.0	Max	9.0	Max	13.0	Max	0.6	+/-0.05
AK		10.0	+/-0.4	5.0	Max	11.0	Max	13.0	Max	0.6	+/-0.05
AP		10.0	+/-0.4	6.0	Max	12.0	Max	13.0	Max	0.6	+/-0.05
AO		10.0	+/-0.4	7.0	Max	17.0	Max	13.0	Max	0.6	+/-0.05
AL	Low Profile	10.0	+/-0.4	9.5	Max	7.5	Max	13.0	Max	0.6	+/-0.05
AE	Special Version	10.0	+/-0.4	4.0	Max	8.0	Max	13.0	Max	0.6	+/-0.05
BB		15.0	+/-0.4	4.0	Max	10.0	Max	18.0	Max	0.8	+/-0.05
BC		15.0	+/-0.4	5.0	Max	11.0	Max	18.0	Max	0.8	+/-0.05
BE		15.0	+/-0.4	5.5	Max	12.5	Max	18.0	Max	0.8	+/-0.05
BG		15.0	+/-0.4	6.0	Max	12.0	Max	18.0	Max	0.8	+/-0.05
BI	High Profile	15.0	+/-0.4	6.0	Max	17.5	Max	18.0	Max	0.8	+/-0.05
BK		15.0	+/-0.4	7.5	Max	13.5	Max	18.0	Max	0.8	+/-0.05
BO	High Profile	15.0	+/-0.4	7.5	Max	18.5	Max	18.0	Max	0.8	+/-0.05
BP		15.0	+/-0.4	8.5	Max	14.5	Max	18.0	Max	0.8	+/-0.05
BT		15.0	+/-0.4	9.0	Max	12.5	Max	18.0	Max	0.8	+/-0.05
BS		15.0	+/-0.4	10.0	Max	16.0	Max	18.0	Max	0.8	+/-0.05
BY		15.0	+/-0.4	11.0	Max	19.0	Max	18.0	Max	0.8	+/-0.05
BZ	Special Version	15.0	+/-0.4	12.0	Max	20.0	Max	18.0	Max	0.8	+/-0.05
BR	Low Profile	15.0	+/-0.4	13.0	Max	12.0	Max	18.0	Max	0.8	+/-0.05
DB		22.5	+/-0.4	6.0	Max	14.5	Max	26.0	Max	0.8	+/-0.05
DI		22.5	+/-0.4	7.0	Max	16.0	Max	26.0	Max	0.8	+/-0.05
DH		22.5	+/-0.4	8.0	Max	16.0	Max	26.0	Max	0.8	+/-0.05
DJ		22.5	+/-0.4	8.5	Max	17.0	Max	26.0	Max	0.8	+/-0.05
DM		22.5	+/-0.4	9.0	Max	18.5	Max	26.0	Max	0.8	+/-0.05
DO		22.5	+/-0.4	10.0	Max	18.5	Max	26.0	Max	0.8	+/-0.05
DP		22.5	+/-0.4	11.0	Max	20.0	Max	26.0	Max	0.8	+/-0.05
DU		22.5	+/-0.4	13.0	Max	22.0	Max	26.0	Max	0.8	+/-0.05
DY		22.5	+/-0.4	15.5	Max	24.5	Max	26.0	Max	0.8	+/-0.05
FB		27.5	+/-0.4	9.0	Max	17.0	Max	31.5	Max	0.8	+/-0.05
FC		27.5	+/-0.4	11.0	Max	20.0	Max	31.5	Max	0.8	+/-0.05

Note: See Ordering Options Table for lead length (LL) options.

Dimensions – Millimeters cont'd



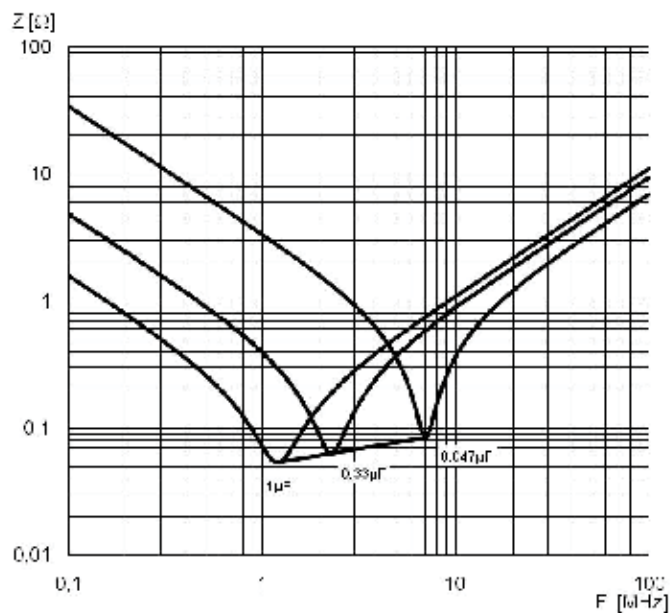
Size Code	Version	p		B		H		L		d	
		Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
FI		27.5	+/-0.4	13.0	Max	25.0	Max	31.5	Max	0.8	+/-0.05
FN		27.5	+/-0.4	14.0	Max	28.0	Max	31.5	Max	0.8	+/-0.05
FO	High Profile	27.5	+/-0.4	17.0	Max	40.0	Max	31.5	Max	0.8	+/-0.05
FR		27.5	+/-0.4	17.5	Max	28.0	Max	31.5	Max	0.8	+/-0.05
FS		27.5	+/-0.4	19.0	Max	29.0	Max	31.5	Max	0.8	+/-0.05
FY		27.5	+/-0.4	22.0	Max	37.0	Max	31.5	Max	0.8	+/-0.05
FH	Low Profile	27.5	+/-0.4	21.0	Max	12.5	Max	31.5	Max	0.8	+/-0.05
FQ	Low Profile	27.5	+/-0.4	27.5	Max	16.0	Max	31.5	Max	0.8	+/-0.05
FT	Low Profile	27.5	+/-0.4	31.0	Max	19.0	Max	31.5	Max	0.8	+/-0.05
RB		37.5	+/-0.4	11.0	Max	22.0	Max	41.0	Max	1	+/-0.05
RF		37.5	+/-0.4	13.0	Max	24.0	Max	41.0	Max	1	+/-0.05
RH		37.5	+/-0.4	15.0	Max	26.0	Max	41.0	Max	1	+/-0.05
RC		37.5	+/-0.4	16.0	Max	28.5	Max	41.0	Max	1	+/-0.05
RD		37.5	+/-0.4	19.0	Max	32.0	Max	41.0	Max	1	+/-0.05
RP		37.5	+/-0.4	21.0	Max	38.0	Max	41.0	Max	1	+/-0.05
RO		37.5	+/-0.4	24.0	Max	44.0	Max	41.0	Max	1	+/-0.05
RU		37.5	+/-0.4	30.0	Max	45.0	Max	41.0	Max	1	+/-0.05
RV	Low Profile	37.5	+/-0.4	24.0	Max	15.0	Max	41.0	Max	1	+/-0.05
RW	Low Profile	37.5	+/-0.4	24.0	Max	19.0	Max	41.0	Max	1	+/-0.05

Note: See Ordering Options Table for lead length (LL) options.

Performance Characteristics

Rated Voltage	330 VAC 50/60 Hz		
Capacitance Range	0.001 – 12 μ F		
Capacitance Tolerance	$\pm$ 20%, $\pm$ 10%, $\pm$ 5% on request		
Temperature Range	-40°C to +110°C		
Climatic Category	40/110/56		
Approvals	ENEC, UL, cUL, CQC (pending)		
Dissipation Factor	Maximum Values at +23°C		
		C $\leq$ 0.1 μ F	C > 0.1 μ F
	1 kHz	0.3%	0.2%
Test Voltage Between Terminals	The 100% screening factory test is carried out at 2,500 VDC. The voltage level is selected to meet the requirements in applicable equipment standards. All electrical characteristics are checked after the test. It is not permitted to repeat this test as there is a risk to damage the capacitor. KEMET is not liable in such case for any failures.		
Insulation Resistance	Between Terminals:		
	C $\leq$ 0.33 μ F	$\geq$ 30,000 M Ω	
	C > 0.33 μ F	$\geq$ 10,000 M Ω • μ F	
In DC Applications	Recommended voltage $\leq$ 800 VDC		

Impedance Graph



Environmental Test Data

Test	IEC Publication	Procedure
Endurance	IEC 60384-14	1.25 x V_R VAC 50 Hz, once every hour increase to 1,000 VAC for 0.1 second, 1,000 hours at upper rated temperature
Vibration	IEC 60068-2-6 Test Fc	3 directions at 2 hours each 10 – 55 Hz at 0.75 mm or 98 m/s ²
Bump	IEC 60068-2-29 Test Eb	1,000 bumps at 390 m/s ²
Change of Temperature	IEC 60068-2-14 Test Na	Upper and lower rated temperature 5 cycles
Active Flammability	IEC 60384-14	V_R + 20 surge pulses at 4 kV (pulse every 5 seconds)
Passive Flammability	IEC 60384-14	IEC 60384-1, IEC 60695-11-5 Needle-flame test
Damp Heat Steady State	IEC 60068-2-78 Test Cab	+40°C and 93% RH, 56 days

Approvals

Mark	Specification	File Number
	EN/IEC 60384-14	In progress
	UL 60384-14 and CAN/CSA-E60384-14	In progress
	GB/T 14472	Pending

Environmental Compliance

All new KEMET EMI capacitors are RoHS Compliant and Halogen Free.



Table 1 – Ratings & Part Number Reference

Cap Value (μ F)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/ μ s)	Part Number
		B	H	L			
0.001	AE	4	8	13	10	500	F871AE102(1)330(2)
0.0012	AE	4	8	13	10	500	F871AE122(1)330(2)
0.0015	AE	4	8	13	10	500	F871AE152(1)330(2)
0.0018	AE	4	8	13	10	500	F871AE182(1)330(2)
0.0018	AL	9.5	7.5	13	10	500	F871AL182(1)330(2)
0.0022	AE	4	8	13	10	500	F871AE222(1)330(2)
0.0022	AL	9.5	7.5	13	10	500	F871AL222(1)330(2)
0.0025	AE	4	8	13	10	500	F871AE252(1)330(2)
0.0025	AL	9.5	7.5	13	10	500	F871AL252(1)330(2)
0.0027	AE	4	8	13	10	500	F871AE272(1)330(2)
0.0027	AL	9.5	7.5	13	10	500	F871AL272(1)330(2)
0.0033	AE	4	8	13	10	500	F871AE332(1)330(2)
0.0033	AL	9.5	7.5	13	10	500	F871AL332(1)330(2)
0.0039	AE	4	8	13	10	500	F871AE392(1)330(2)
0.0039	AL	9.5	7.5	13	10	500	F871AL392(1)330(2)
0.0047	AE	4	8	13	10	500	F871AE472(1)330(2)
0.0047	AL	9.5	7.5	13	10	500	F871AL472(1)330(2)
0.0056	AE	4	8	13	10	500	F871AE562(1)330(2)
0.0056	AL	9.5	7.5	13	10	500	F871AL562(1)330(2)
0.0068	AE	4	8	13	10	500	F871AE682(1)330(2)
0.0068	AL	9.5	7.5	13	10	500	F871AL682(1)330(2)
0.0082	AE	4	8	13	10	500	F871AE822(1)330(2)
0.0082	AL	9.5	7.5	13	10	500	F871AL822(1)330(2)
0.01	AE	4	8	13	10	500	F871AE103(3)330(2)
0.01	AG	4	9	13	10	500	F871AG103(1)330(2)
0.01	AL	9.5	7.5	13	10	500	F871AL103(1)330(2)
0.012	AG	4	9	13	10	500	F871AG123(1)330(2)
0.012	AL	9.5	7.5	13	10	500	F871AL123(1)330(2)
0.015	AK	5	11	13	10	500	F871AK153(1)330(2)
0.015	AL	9.5	7.5	13	10	500	F871AL153(1)330(2)
0.018	AK	5	11	13	10	500	F871AK183(1)330(2)
0.018	AL	9.5	7.5	13	10	500	F871AL183(1)330(2)
0.022	AK	5	11	13	10	500	F871AK223(3)330(2)
0.022	AL	9.5	7.5	13	10	500	F871AL223(1)330(2)
0.022	AP	6	12	13	10	500	F871AP223(1)330(2)
0.025	AL	9.5	7.5	13	10	500	F871AL253(1)330(2)
0.025	AP	6	12	13	10	500	F871AP253(1)330(2)
0.027	AL	9.5	7.5	13	10	500	F871AL273(1)330(2)
0.027	AP	6	12	13	10	500	F871AP273(1)330(2)
0.033	AO	7	17	13	10	500	F871AO333(1)330(2)
0.033	AP	6	12	13	10	500	F871AP333(3)330(2)
0.035	AO	7	17	13	10	500	F871AO353(1)330(2)
0.039	AO	7	17	13	10	500	F871AO393(1)330(2)
0.047	AO	7	17	13	10	500	F871AO473(3)330(2)
0.0027	BB	4	10	18	15	400	F871BB272(1)330(2)
0.0033	BB	4	10	18	15	400	F871BB332(1)330(2)
0.0039	BB	4	10	18	15	400	F871BB392(1)330(2)
0.0047	BB	4	10	18	15	400	F871BB472(1)330(2)
0.0056	BB	4	10	18	15	400	F871BB562(1)330(2)
0.0068	BB	4	10	18	15	400	F871BB682(1)330(2)
0.0082	BB	4	10	18	15	400	F871BB822(1)330(2)
0.01	BB	4	10	18	15	400	F871BB103(1)330(2)
0.012	BB	4	10	18	15	400	F871BB123(1)330(2)
0.015	BB	4	10	18	15	400	F871BB153(1)330(2)
0.018	BB	4	10	18	15	400	F871BB183(1)330(2)
0.022	BB	4	10	18	15	400	F871BB223(1)330(2)
0.025	BB	4	10	18	15	400	F871BB253(1)330(2)
0.027	BB	4	10	18	15	400	F871BB273(1)330(2)
Cap Value (μ F)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/ μ s)	Part Number

(1) $M = \pm 20\%$, $K = \pm 10\%$, $J = \pm 5\%$ on request.

(2) Insert lead and packaging code. See table for available options.

(3) $M = \pm 20\%$ (only available tolerance).

Table 1 – Ratings & Part Number Reference cont'd

Cap Value (μF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/μs)	Part Number
		B	H	L			
0.033	BB	4	10	18	15	400	F871BB333(3)330(2)
0.033	BC	5	11	18	15	400	F871BC333(1)330(2)
0.039	BC	5	11	18	15	400	F871BC393(1)330(2)
0.047	BC	5	11	18	15	400	F871BC473(3)330(2)
0.047	BE	5.5	12.5	18	15	400	F871BE473(1)330(2)
0.056	BE	5.5	12.5	18	15	400	F871BE563(1)330(2)
0.068	BE	5.5	12.5	18	15	400	F871BE683(3)330(2)
0.068	BG	6	12	18	15	400	F871BG683(1)330(2)
0.082	BI	6	17.5	18	15	400	F871BI823(1)330(2)
0.082	BK	7.5	13.5	18	15	400	F871BK823(1)330(2)
0.082	BR	13	12	18	15	400	F871BR823(1)330(2)
0.082	BT	9	12.5	18	15	400	F871BT823(1)330(2)
0.1	BI	6	17.5	18	15	400	F871BI104(1)330(2)
0.1	BK	7.5	13.5	18	15	400	F871BK104(1)330(2)
0.1	BR	13	12	18	15	400	F871BR104(1)330(2)
0.1	BT	9	12.5	18	15	400	F871BT104(1)330(2)
0.12	BI	6	17.5	18	15	400	F871BI124(1)330(2)
0.12	BK	7.5	13.5	18	15	400	F871BK124(3)330(2)
0.12	BP	8.5	14.5	18	15	400	F871BP124(1)330(2)
0.12	BR	13	12	18	15	400	F871BR124(1)330(2)
0.12	BT	9	12.5	18	15	400	F871BT124(3)330(2)
0.15	BO	7.5	18.5	18	15	400	F871BO154(1)330(2)
0.15	BP	8.5	14.5	18	15	400	F871BP154(3)330(2)
0.15	BR	13	12	18	15	400	F871BR154(1)330(2)
0.18	BO	7.5	18.5	18	15	400	F871BO184(3)330(2)
0.18	BR	13	12	18	15	400	F871BR184(1)330(2)
0.18	BS	10	16	18	15	400	F871BS184(1)330(2)
0.22	BY	11	19	18	15	400	F871BY224(1)330(2)
0.25	BY	11	19	18	15	400	F871BY254(3)330(2)
0.25	BZ	12	20	18	15	400	F871BZ254(1)330(2)
0.27	BY	11	19	18	15	400	F871BY274(3)330(2)
0.27	BZ	12	20	18	15	400	F871BZ274(1)330(2)
0.039	DB	6	14.5	26	22.5	200	F871DB393(1)330(2)
0.047	DB	6	14.5	26	22.5	200	F871DB473(1)330(2)
0.056	DB	6	14.5	26	22.5	200	F871DB563(1)330(2)
0.068	DB	6	14.5	26	22.5	200	F871DB683(1)330(2)
0.082	DB	6	14.5	26	22.5	200	F871DB823(1)330(2)
0.1	DB	6	14.5	26	22.5	200	F871DB104(1)330(2)
0.12	DB	6	14.5	26	22.5	200	F871DB124(1)330(2)
0.15	DB	6	14.5	26	22.5	200	F871DB154(3)330(2)
0.15	DI	7	16	26	22.5	200	F871DI154(1)330(2)
0.18	DI	7	16	26	22.5	200	F871DI184(1)330(2)
0.22	DI	7	16	26	22.5	200	F871DI224(1)330(2)
0.25	DH	8	16	26	22.5	200	F871DH254(1)330(2)
0.27	DH	8	16	26	22.5	200	F871DH274(3)330(2)
0.33	DJ	8.5	17	26	22.5	200	F871DJ334(3)330(2)
0.33	DM	9	18.5	26	22.5	200	F871DM334(1)330(2)
0.39	DM	9	18.5	26	22.5	200	F871DM394(3)330(2)
0.39	DO	10	18.5	26	22.5	200	F871DO394(1)330(2)
0.47	DO	10	18.5	26	22.5	200	F871DO474(3)330(2)
0.47	DP	11	20	26	22.5	200	F871DP474(1)330(2)
0.56	DP	11	20	26	22.5	200	F871DP564(3)330(2)
0.68	DU	13	22	26	22.5	200	F871DU684(1)330(2)
0.82	DU	13	22	26	22.5	200	F871DU824(3)330(2)
0.82	DY	15.5	24.5	26	22.5	200	F871DY824(1)330(2)
1	DY	15.5	24.5	26	22.5	200	F871DY105(1)330(2)
0.15	FB	9	17	31.5	27.5	150	F871FB154(1)330(2)
0.18	FB	9	17	31.5	27.5	150	F871FB184(1)330(2)
0.22	FB	9	17	31.5	27.5	150	F871FB224(1)330(2)
Cap Value (μF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/μs)	Part Number

(1) M = ±20%, K = ±10%, J = ± 5% on request.

(2) Insert lead and packaging code. See table for available options.

(3) M = ±20% (only available tolerance).

Table 1 – Ratings & Part Number Reference cont'd

Cap Value (μ F)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/ μ s)	Part Number
		B	H	L			
0.25	FB	9	17	31.5	27.5	150	F871FB254(1)330(2)
0.25	FH	21	12.5	31.5	27.5	150	F871FH254(1)330(2)
0.27	FB	9	17	31.5	27.5	150	F871FB274(1)330(2)
0.27	FH	21	12.5	31.5	27.5	150	F871FH274(1)330(2)
0.33	FB	9	17	31.5	27.5	150	F871FB334(1)330(2)
0.33	FH	21	12.5	31.5	27.5	150	F871FH334(1)330(2)
0.39	FB	9	17	31.5	27.5	150	F871FB394(1)330(2)
0.39	FH	21	12.5	31.5	27.5	150	F871FH394(1)330(2)
0.47	FB	9	17	31.5	27.5	150	F871FB474(1)330(2)
0.47	FH	21	12.5	31.5	27.5	150	F871FH474(1)330(2)
0.56	FB	9	17	31.5	27.5	150	F871FB564(3)330(2)
0.56	FC	11	20	31.5	27.5	150	F871FC564(1)330(2)
0.56	FH	21	12.5	31.5	27.5	150	F871FH564(1)330(2)
0.68	FC	11	20	31.5	27.5	150	F871FC684(1)330(2)
0.68	FH	21	12.5	31.5	27.5	150	F871FH684(1)330(2)
0.82	FC	11	20	31.5	27.5	150	F871FC824(1)330(2)
0.82	FH	21	12.5	31.5	27.5	150	F871FH824(1)330(2)
1	FH	21	12.5	31.5	27.5	150	F871FH105(3)330(2)
1	FI	13	25	31.5	27.5	150	F871FI105(1)330(2)
1.2	FI	13	25	31.5	27.5	150	F871FI125(1)330(2)
1.2	FQ	27.5	16	31.5	27.5	150	F871FQ125(1)330(2)
1.5	FI	13	25	31.5	27.5	150	F871FI155(1)330(2)
1.5	FN	14	28	31.5	27.5	150	F871FN155(1)330(2)
1.5	FQ	27.5	16	31.5	27.5	150	F871FQ155(1)330(2)
1.8	FN	14	28	31.5	27.5	150	F871FN185(3)330(2)
1.8	FO	17	40	31.5	27.5	150	F871FO185(1)330(2)
1.8	FQ	27.5	16	31.5	27.5	150	F871FQ185(3)330(2)
1.8	FR	17.5	28	31.5	27.5	150	F871FR185(1)330(2)
1.8	FT	31	19	31.5	27.5	150	F871FT185(1)330(2)
2.2	FO	17	40	31.5	27.5	150	F871FO225(1)330(2)
2.2	FR	17.5	28	31.5	27.5	150	F871FR225(1)330(2)
2.2	FT	31	19	31.5	27.5	150	F871FT225(1)330(2)
2.5	FO	17	40	31.5	27.5	150	F871FO255(1)330(2)
2.5	FR	17.5	28	31.5	27.5	150	F871FR255(3)330(2)
2.5	FS	19	29	31.5	27.5	150	F871FS255(1)330(2)
2.5	FT	31	19	31.5	27.5	150	F871FT255(3)330(2)
2.7	FO	17	40	31.5	27.5	150	F871FO275(1)330(2)
2.7	FS	19	29	31.5	27.5	150	F871FS275(3)330(2)
2.7	FT	31	19	31.5	27.5	150	F871FT275(3)330(2)
3.3	FY	22	37	31.5	27.5	150	F871FY335(1)330(2)
3.9	FY	22	37	31.5	27.5	150	F871FY395(1)330(2)
0.33	RB	11	22	41	37.5	100	F871RB334(1)330(2)
0.39	RB	11	22	41	37.5	100	F871RB394(1)330(2)
0.47	RB	11	22	41	37.5	100	F871RB474(1)330(2)
0.56	RB	11	22	41	37.5	100	F871RB564(1)330(2)
0.56	RV	24	15	41	37.5	100	F871RV564(1)330(2)
0.68	RB	11	22	41	37.5	100	F871RB684(1)330(2)
0.68	RV	24	15	41	37.5	100	F871RV684(1)330(2)
0.82	RB	11	22	41	37.5	100	F871RB824(1)330(2)
0.82	RV	24	15	41	37.5	100	F871RV824(1)330(2)
1	RB	11	22	41	37.5	100	F871RB105(1)330(2)
1	RV	24	15	41	37.5	100	F871RV105(1)330(2)
1.2	RB	11	22	41	37.5	100	F871RB125(1)330(2)
1.2	RV	24	15	41	37.5	100	F871RV125(1)330(2)
1.5	RB	11	22	41	37.5	100	F871RB155(3)330(2)
1.5	RV	24	15	41	37.5	100	F871RV155(1)330(2)
1.8	RF	13	24	41	37.5	100	F871RF185(1)330(2)
1.8	RV	24	15	41	37.5	100	F871RV185(1)330(2)
2.2	RF	13	24	41	37.5	100	F871RF225(3)330(2)
Cap Value (μ F)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/ μ s)	Part Number

(1) $M = \pm 20\%$, $K = \pm 10\%$, $J = \pm 5\%$ on request.

(2) Insert lead and packaging code. See table for available options.

(3) $M = \pm 20\%$ (only available tolerance).

Table 1 – Ratings & Part Number Reference cont'd

Cap Value (μ F)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/ μ s)	Part Number
		B	H	L			
2.2	RH	15	26	41	37.5	100	F871RH225(1)330(2)
2.2	RV	24	15	41	37.5	100	F871RV225(3)330(2)
2.5	RH	15	26	41	37.5	100	F871RH255(1)330(2)
2.5	RW	24	19	41	37.5	100	F871RW255(1)330(2)
2.7	RH	15	26	41	37.5	100	F871RH275(1)330(2)
2.7	RW	24	19	41	37.5	100	F871RW275(1)330(2)
3.3	RC	16	28.5	41	37.5	100	F871RC335(3)330(2)
3.3	RD	19	32	41	37.5	100	F871RD335(1)330(2)
3.3	RW	24	19	41	37.5	100	F871RW335(3)330(2)
3.9	RD	19	32	41	37.5	100	F871RD395(1)330(2)
4.7	RD	19	32	41	37.5	100	F871RD475(3)330(2)
4.7	RP	21	38	41	37.5	100	F871RP475(1)330(2)
5.6	RO	24	44	41	37.5	100	F871RO565(1)330(2)
5.6	RP	21	38	41	37.5	100	F871RP565(3)330(2)
6.8	RO	24	44	41	37.5	100	F871RO685(1)330(2)
8.2	RO	24	44	41	37.5	100	F871RO825(1)330(2)
10	RU	30	45	41	37.5	100	F871RU106(1)330(2)
12	RU	30	45	41	37.5	100	F871RU126(3)330(2)
Cap Value (μF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/μs)	Part Number

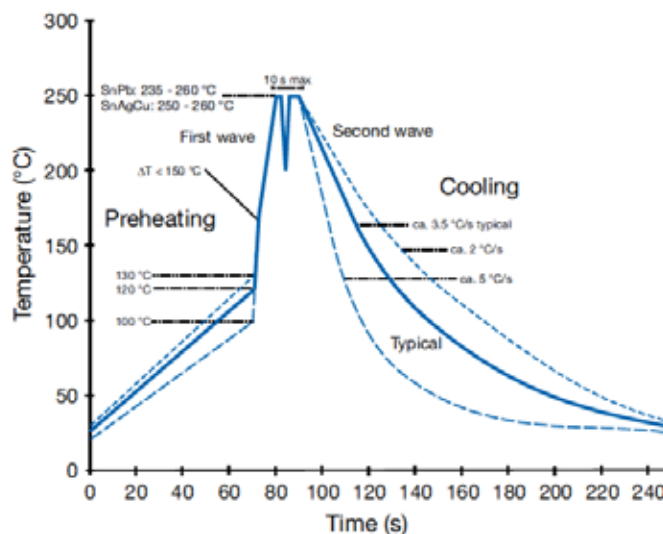
(1) $M = \pm 20\%$, $K = \pm 10\%$, $J = \pm 5\%$ on request.

(2) Insert lead and packaging code. See table for available options.

(3) $M = \pm 20\%$ (only available tolerance).

Soldering Process

The implementation of the RoHS Directive has required the use of SnAuCu (SAC) or SnCu alloys as primary solder. These alloys require a higher liquidus temperature (217°C – 221°C) as compared to SnPb eutectic alloy (183°C). Due to the higher pre-heat and wave temperatures, the heat stress to components has increased considerably. Polypropylene capacitors are especially sensitive to soldering temperature due to the relatively low melting point of polypropylene material (160°C – 170°C). As a result, wave soldering can be destructive, especially to mechanically small polypropylene capacitors with lead spacings of 5 – 10 mm. For more information, please refer to KEMET's Recommended Soldering Profiles or contact a KEMET representative. IEC Publication 61760–1 Edition 2 may also be consulted for general guidelines.



Marking

- KEMET or KEC
- Series
- Capacitance
- Capacitance tolerance
- Rated voltage
- X1
- Approval marks
- Manufacturing date code
- IEC climatic category
- Passive flammability class

Lateral Marking	Top Marking

Packaging Quantities

Size Code	Lead Spacing	Thickness (mm)	Height (mm)	Length (mm)	Bulk Short Leads	Bulk Long Leads	Standard Reel ø 355 mm	Large Reel ø 500 mm	Ammo	Pizza
AN	10	3.5	9	13	2200	3200	850	1700	1150	
AG		4	9	13	2000	2200	750	1500	1000	
AK		5	11	13	1300	2000	600	1250	800	
AP		6	12	13	1000	1800	500	1000	680	
AO		7	17	13	600	900	450	900	580	
AL		9.5	7.5	13	1100	2000	300	600	430	
AE		4	8	13	2000	2200	750	1500	1000	
BB	15	4	10	18	1300	1500	750	1500	1000	1411
BC		5	11	18	1000	1250	600	1250	800	1139
BE		5.5	12.5	18	800	1100	550	1100	750	1020
BG		6	12	18	1750	1000	500	1000	680	935
BK		7.5	13.5	18	1000	800	350	800	500	748
BI		6	17.5	18	1000	800	500	1000	680	935
BP		8.5	14.5	18	1000	650	300	700	440	663
BT		9	12.5	18	1000	700	270	650	410	629
BO		7.5	18.5	18	900	600	350	800	500	748
BS		10	16	18	750	550	300	600	380	561
BR		13	12	18	750	520	200	480	280	425
BY		11	19	18	450	400	250	500	340	510
BA		8.5	12.5	18	1000	650	300	700	440	663
BZ		12	20	18	350	300	220	450	330	459
DB	22.5	6	14.5	26	1638	702	300	700	464	660
DI		7	16	26	1188	594	250	550	380	564
DH		8.0	16.0	26	1026	513	240	500	330	492
DJ		8.5	17	26	972	486	250	450	280	468
DM		9	18.5	26	918	459	200	400	300	444
DO		10	18.5	26	810	405	160	350	235	396
DP		11	20	26	756	378	190	350	217	360
DU		13	22	26	540	324	150	300	200	300
DY		15.5	24.5	26	450	270	120	250	170	252

Packaging Quantities cont'd

Size Code	Lead Spacing	Thickness (mm)	Height (mm)	Length (mm)	Bulk Short Leads	Bulk Long Leads	Standard Reel ø 355 mm	Large Reel ø 500 mm	Ammo	Pizza
FB	27.5	9.0	17.0	31.5	816	408				370
FC		11.0	20.0	31.5	672	336				300
FI		13.0	25.0	31.5	480	288				250
FN		14.0	28.0	31.5	352	176				230
FO		17.0	40.0	31.5	216	144				190
FR		17.5	28.0	31.5	256	128				190
FS		19.0	29.0	31.5	256	128				170
FY		22.0	37.0	31.5	168	112				150
FH		21.0	12.5	31.5	392	168				150
FQ		27.5	16.0	31.5	280	120				120
FT		31.0	19.0	31.5	240	120				100
RB	37.5	11.0	22.0	41.0	420	252				210
RF		13.0	24.0	41.0	360	216				175
RH		15.0	26.0	41.0	300	180				154
RC		16.0	28.5	41.0	216	108				140
RD		19.0	32.0	41.0	192	96				119
RP		21.0	38.0	41.0	126	84				105
RO		24.0	44.0	41.0	108	72				91
RU		30.0	45.0	41.0	90	60				77
RV		24.0	15.0	41.0	252	108				91
RW		24.0	19.0	41.0	216	108				91

F872 Series Metallized Polypropylene Film, Class X1, 480 VAC



Overview

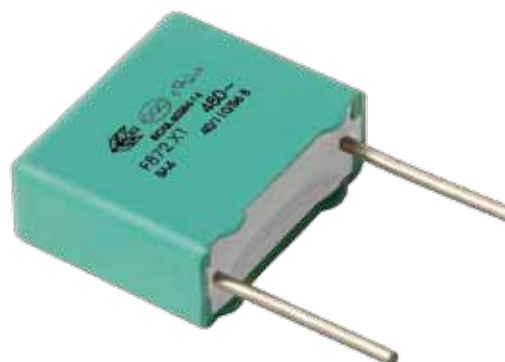
Metallized polypropylene film encapsulated with self-extinguishing resin in a box of material recognized to UL 94 V-0.

Applications

For worldwide use as electromagnetic interference suppressor in all X1 and across-the-line applications.

Benefits

- Approvals : ENEC, UL, cUL, CQC
- Rated voltage: 480 VAC 50/60 Hz
- Capacitance range: 0.001 – 5.6 μ F
- Lead spacing: 10 – 37.5 mm
- Capacitance tolerance: $\pm 20\%$, $\pm 10\%$, $\pm 5\%$ on request
- Climatic category 40/110/56, IEC 60068-1
- Tape and reel in accordance with IEC 60286-2
- RoHS Compliant and lead-free terminations
- Operating temperature range of -40°C to +110°C
- 100% screening factory test at 3,000 VDC



Part Number System

F	872	B	S	104	M	480	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Voltage (VAC)	Lead and Packaging Code
F = Film	X1, Metallized Polypropylene	A = 10 B = 15 D = 22.5 F = 27.5 R = 37.5	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	480	See Ordering Options Table

Ordering Options Table

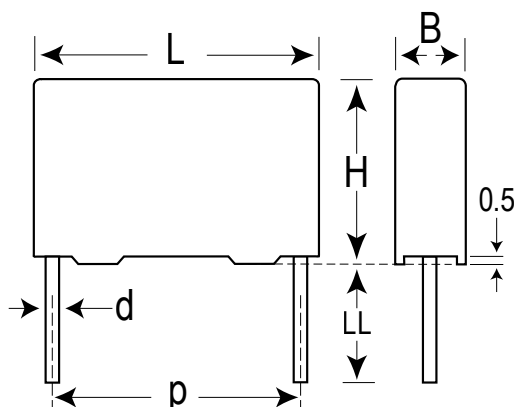
Lead Spacing Nominal (mm)	Type of Leads and Packaging	Lead Length (mm)	Lead and Packaging Code
10	Standard Lead and Packaging Options		
	Bulk (Bag) – Short Leads	4 +2/-0	C
	Bulk (Bag) – Long Leads	17 +0/-1	A
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Other Lead and Packaging Options		
	Bulk (Bag) – Max Length Leads	20 +5/-0	ALL0L
	Ammo Pack	H ₀ = 18.5 +/-0.5	R
	Tape & Reel (Large Reel)	H ₀ = 18.5 +/-0.5	P

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Ordering Options Table cont'd

Lead Spacing Nominal (mm)	Type of Leads and Packaging	Lead Length (mm)	Lead and Packaging Code
15	Standard Lead and Packaging Options		
	Bulk (Bag) – Short Leads	4 +2/-0	C
	Bulk (Bag) – Long Leads	17 +0/-1	A
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Pizza Pack	4 +2/-0	Z
	Other Lead and Packaging Options		
	Bulk (Bag) – Max Length Leads	25 +5/-0	ALR0L
	Ammo Pack	H ₀ = 18.5 +/-0.5	R
	Tape & Reel (Large Reel)	H ₀ = 18.5 +/-0.5	P
22.5	Standard Lead and Packaging Options		
	Bulk (Tray) – Short Leads	4 +2/-0	C
	Bulk (Tray) – Long Leads	17 +0/-1	A
	Pizza Pack	4 +2/-0	Z
	Other Lead and Packaging Options		
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Tape & Reel (Large Reel)	H ₀ = 18.5 +/-0.5	P
	Ammo Pack	H ₀ = 18.5 +/-0.5	R
27.5	Standard Lead and Packaging Options		
	Bulk (Tray) – Short Leads	4 +2/-0	C
	Bulk (Tray) – Long Leads	17 +0/-1	A
	Pizza Pack	4 +2/-0	Z
37.5	Standard Lead and Packaging Options		
	Bulk (Tray) – Short Leads	4 +2/-0	C
	Bulk (Tray) – Long Leads	17 +0/-1	A
	Pizza Pack	4 +2/-0	Z

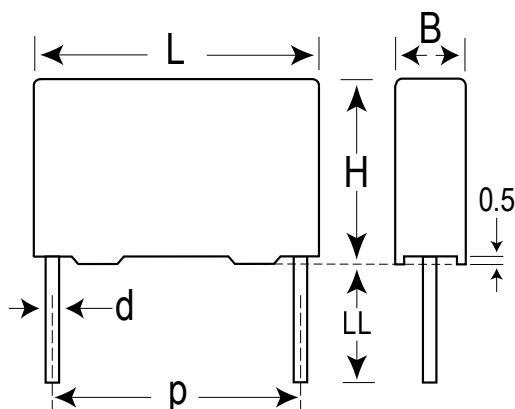
Dimensions – Millimeters



Size Code	Version	p		B		H		L		d	
		Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
AG		10.0	+/-0.4	4.0	Max	9.0	Max	13.0	Max	0.6	+/-0.05
AK		10.0	+/-0.4	5.0	Max	11.0	Max	13.0	Max	0.6	+/-0.05
AP		10.0	+/-0.4	6.0	Max	12.0	Max	13.0	Max	0.6	+/-0.05
AO		10.0	+/-0.4	7.0	Max	17.0	Max	13.0	Max	0.6	+/-0.05
AL	Low Profile	10.0	+/-0.4	9.5	Max	7.5	Max	13.0	Max	0.6	+/-0.05
AE	Special Version	10.0	+/-0.4	4.0	Max	8.0	Max	13.0	Max	0.6	+/-0.05
BB		15.0	+/-0.4	4.0	Max	10.0	Max	18.0	Max	0.8	+/-0.05
BC		15.0	+/-0.4	5.0	Max	11.0	Max	18.0	Max	0.8	+/-0.05
BE		15.0	+/-0.4	5.5	Max	12.5	Max	18.0	Max	0.8	+/-0.05
BG		15.0	+/-0.4	6.0	Max	12.0	Max	18.0	Max	0.8	+/-0.05
BI	High Profile	15.0	+/-0.4	6.0	Max	17.5	Max	18.0	Max	0.8	+/-0.05
BK		15.0	+/-0.4	7.5	Max	13.5	Max	18.0	Max	0.8	+/-0.05
BO	High Profile	15.0	+/-0.4	7.5	Max	18.5	Max	18.0	Max	0.8	+/-0.05
BP		15.0	+/-0.4	8.5	Max	14.5	Max	18.0	Max	0.8	+/-0.05
BT		15.0	+/-0.4	9.0	Max	12.5	Max	18.0	Max	0.8	+/-0.05
BS		15.0	+/-0.4	10.0	Max	16.0	Max	18.0	Max	0.8	+/-0.05
BY		15.0	+/-0.4	11.0	Max	19.0	Max	18.0	Max	0.8	+/-0.05
BZ	Special Version	15.0	+/-0.4	12.0	Max	20.0	Max	18.0	Max	0.8	+/-0.05
BR	Low Profile	15.0	+/-0.4	13.0	Max	12.0	Max	18.0	Max	0.8	+/-0.05
DB		22.5	+/-0.4	6.0	Max	14.5	Max	26.0	Max	0.8	+/-0.05
DI		22.5	+/-0.4	7.0	Max	16.0	Max	26.0	Max	0.8	+/-0.05
DH		22.5	+/-0.4	8.0	Max	16.0	Max	26.0	Max	0.8	+/-0.05
DJ		22.5	+/-0.4	8.5	Max	17.0	Max	26.0	Max	0.8	+/-0.05
DM		22.5	+/-0.4	9.0	Max	18.5	Max	26.0	Max	0.8	+/-0.05
DO		22.5	+/-0.4	10.0	Max	18.5	Max	26.0	Max	0.8	+/-0.05
DP		22.5	+/-0.4	11.0	Max	20.0	Max	26.0	Max	0.8	+/-0.05
DU		22.5	+/-0.4	13.0	Max	22.0	Max	26.0	Max	0.8	+/-0.05
DY		22.5	+/-0.4	15.5	Max	24.5	Max	26.0	Max	0.8	+/-0.05
FB		27.5	+/-0.4	9.0	Max	17.0	Max	31.5	Max	0.8	+/-0.05
FC		27.5	+/-0.4	11.0	Max	20.0	Max	31.5	Max	0.8	+/-0.05

Note: See Ordering Options Table for lead length (LL) options.

Dimensions – Millimeters cont'd

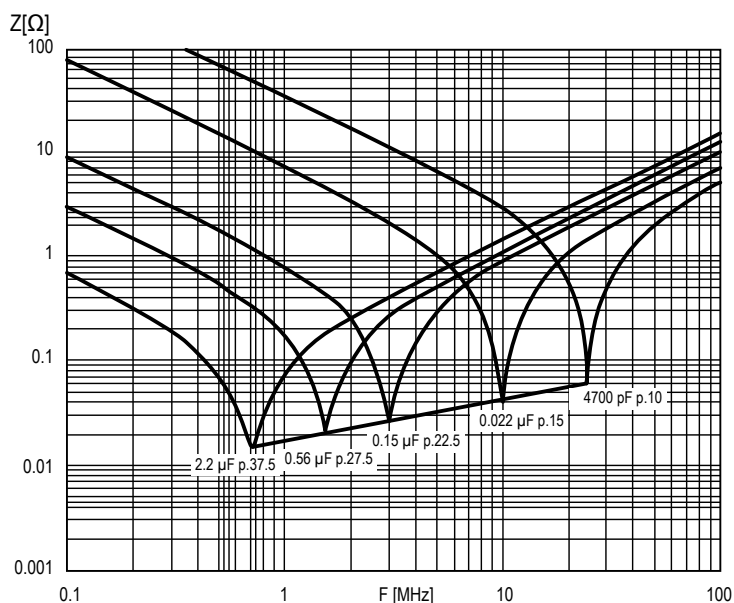


Size Code	Version	p		B		H		L		d	
		Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
FI		27.5	+/-0.4	13.0	Max	25.0	Max	31.5	Max	0.8	+/-0.05
FN		27.5	+/-0.4	14.0	Max	28.0	Max	31.5	Max	0.8	+/-0.05
FO	High Profile	27.5	+/-0.4	17.0	Max	40.0	Max	31.5	Max	0.8	+/-0.05
FR		27.5	+/-0.4	17.5	Max	28.0	Max	31.5	Max	0.8	+/-0.05
FS		27.5	+/-0.4	19.0	Max	29.0	Max	31.5	Max	0.8	+/-0.05
FY		27.5	+/-0.4	22.0	Max	37.0	Max	31.5	Max	0.8	+/-0.05
FH	Low Profile	27.5	+/-0.4	21.0	Max	12.5	Max	31.5	Max	0.8	+/-0.05
FQ	Low Profile	27.5	+/-0.4	27.5	Max	16.0	Max	31.5	Max	0.8	+/-0.05
FT	Low Profile	27.5	+/-0.4	31.0	Max	19.0	Max	31.5	Max	0.8	+/-0.05
RB		37.5	+/-0.4	11.0	Max	22.0	Max	41.0	Max	1	+/-0.05
RF		37.5	+/-0.4	13.0	Max	24.0	Max	41.0	Max	1	+/-0.05
RH		37.5	+/-0.4	15.0	Max	26.0	Max	41.0	Max	1	+/-0.05
RC		37.5	+/-0.4	16.0	Max	28.5	Max	41.0	Max	1	+/-0.05
RD		37.5	+/-0.4	19.0	Max	32.0	Max	41.0	Max	1	+/-0.05
RP		37.5	+/-0.4	21.0	Max	38.0	Max	41.0	Max	1	+/-0.05
RO		37.5	+/-0.4	24.0	Max	44.0	Max	41.0	Max	1	+/-0.05
RU		37.5	+/-0.4	30.0	Max	45.0	Max	41.0	Max	1	+/-0.05
RV	Low Profile	37.5	+/-0.4	24.0	Max	15.0	Max	41.0	Max	1	+/-0.05
RW	Low Profile	37.5	+/-0.4	24.0	Max	19.0	Max	41.0	Max	1	+/-0.05
Note: See Ordering Options Table for lead length (LL) options.											

Performance Characteristics

Rated Voltage	480 VAC 50/60 Hz		
Capacitance Range	0.001 – 5.6 μF		
Capacitance Tolerance	$\pm 20\%$, $\pm 10\%$, $\pm 5\%$ on request		
Temperature Range	-40°C to $+110^{\circ}\text{C}$		
Climatic Category	40/110/56		
Approvals	ENEC, UL, cUL, CQC (pending)		
Dissipation Factor	Maximum Values at $+23^{\circ}\text{C}$		
		$\text{C} \leq 0.1 \mu\text{F}$	$\text{C} > 0.1 \mu\text{F}$
	1 kHz	0.3%	0.2%
Test Voltage Between Terminals	The 100% screening factory test is carried out at 2,500 VDC. The voltage level is selected to meet the requirements in applicable equipment standards. All electrical characteristics are checked after the test. It is not permitted to repeat this test as there is a risk to damage the capacitor. KEMET is not liable in such case for any failures.		
Insulation Resistance	Between Terminals:		
	$\text{C} \leq 0.33 \mu\text{F}$	$\geq 30,000 \text{ M}\Omega$	
	$\text{C} > 0.33 \mu\text{F}$	$\geq 10,000 \text{ M}\Omega \cdot \mu\text{F}$	
In DC Applications	Recommended voltage $\leq 1,000 \text{ VDC}$		

Impedance Graph



Environmental Test Data

Test	IEC Publication	Procedure
Endurance	IEC 60384-14	1.25 x V_R VAC 50 Hz, once every hour increase to 1,000 VAC for 0.1 second, 1,000 hours at upper rated temperature
Vibration	IEC 60068-2-6 Test Fc	3 directions at 2 hours each 10 – 55 Hz at 0.75 mm or 98 m/s ²
Bump	IEC 60068-2-29 Test Eb	1,000 bumps at 390 m/s ²
Change of Temperature	IEC 60068-2-14 Test Na	Upper and lower rated temperature 5 cycles
Active Flammability	IEC 60384-14	V_R + 20 surge pulses at 4 kV (pulse every 5 seconds)
Passive Flammability	IEC 60384-14	IEC 60384-1, IEC 60695-11-5 Needle-flame test
Damp Heat Steady State	IEC 60068-2-78 Test Cab	+40°C and 93% RH, 56 days

Approvals

Mark	Specification	File Number
	EN/IEC 60384-14	In progress
	UL 60384-14 and CAN/CSA-E60384-14	In progress
	GB/T 14472	Pending

Environmental Compliance

All new KEMET EMI capacitors are RoHS Compliant and Halogen Free.



Table 1 – Ratings & Part Number Reference

Cap Value (μ F)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/ μ s)	Part Number
		B	H	L			
0.001	AE	4	8	13	10	750	F872AE102(1)480(2)
0.0012	AE	4	8	13	10	750	F872AE122(1)480(2)
0.0015	AE	4	8	13	10	750	F872AE152(1)480(2)
0.0018	AE	4	8	13	10	750	F872AE182(1)480(2)
0.0018	AL	9.5	7.5	13	10	750	F872AL182(1)480(2)
0.0022	AE	4	8	13	10	750	F872AE222(1)480(2)
0.0022	AL	9.5	7.5	13	10	750	F872AL222(1)480(2)
0.0025	AE	4	8	13	10	750	F872AE252(1)480(2)
0.0025	AL	9.5	7.5	13	10	750	F872AL252(1)480(2)
0.0027	AE	4	8	13	10	750	F872AE272(1)480(2)
0.0027	AL	9.5	7.5	13	10	750	F872AL272(1)480(2)
0.0033	AE	4	8	13	10	750	F872AE332(1)480(2)
0.0033	AL	9.5	7.5	13	10	750	F872AL332(1)480(2)
0.0039	AE	4	8	13	10	750	F872AE392(3)480(2)
0.0039	AG	4	9	13	10	750	F872AG392(1)480(2)
0.0039	AL	9.5	7.5	13	10	750	F872AL392(1)480(2)
0.0047	AG	4	9	13	10	750	F872AG472(1)480(2)
0.0047	AL	9.5	7.5	13	10	750	F872AL472(1)480(2)
0.0056	AK	5	11	13	10	750	F872AK562(1)480(2)
0.0056	AL	9.5	7.5	13	10	750	F872AL562(1)480(2)
0.0068	AK	5	11	13	10	750	F872AK682(1)480(2)
0.0068	AL	9.5	7.5	13	10	750	F872AL682(1)480(2)
0.0082	AK	5	11	13	10	750	F872AK822(3)480(2)
0.0082	AL	9.5	7.5	13	10	750	F872AL822(1)480(2)
0.01	AL	9.5	7.5	13	10	750	F872AL103(1)480(2)
0.01	AP	6	12	13	10	750	F872AP103(1)480(2)
0.012	AP	6	12	13	10	750	F872AP123(3)480(2)
0.015	AO	7	17	13	10	750	F872AO153(1)480(2)
0.018	AO	7	17	13	10	750	F872AO183(3)480(2)
0.0027	BB	4	10	18	15	600	F872BB272(1)480(2)
0.0033	BB	4	10	18	15	600	F872BB332(1)480(2)
0.0039	BB	4	10	18	15	600	F872BB392(1)480(2)
0.0047	BB	4	10	18	15	600	F872BB472(1)480(2)
0.0056	BB	4	10	18	15	600	F872BB562(1)480(2)
0.0068	BB	4	10	18	15	600	F872BB682(1)480(2)
0.0082	BB	4	10	18	15	600	F872BB822(1)480(2)
0.01	BB	4	10	18	15	600	F872BB103(1)480(2)
0.012	BB	4	10	18	15	600	F872BB123(1)480(2)
0.015	BB	4	10	18	15	600	F872BB153(1)480(2)
0.015	BT	9	12.5	18	15	600	F872BT153(1)480(2)
0.018	BC	5	11	18	15	600	F872BC183(1)480(2)
0.018	BT	9	12.5	18	15	600	F872BT183(1)480(2)
0.022	BC	5	11	18	15	600	F872BC223(1)480(2)
0.022	BT	9	12.5	18	15	600	F872BT223(1)480(2)
0.025	BE	5.5	12.5	18	15	600	F872BE253(1)480(2)
0.025	BT	9	12.5	18	15	600	F872BT253(1)480(2)
0.027	BE	5.5	12.5	18	15	600	F872BE273(1)480(2)
0.027	BT	9	12.5	18	15	600	F872BT273(1)480(2)
0.033	BE	5.5	12.5	18	15	600	F872BE333(3)480(2)
0.033	BG	6	12	18	15	600	F872BG333(1)480(2)
0.033	BT	9	12.5	18	15	600	F872BT333(1)480(2)
0.039	BI	6	17.5	18	15	600	F872BI393(3)480(2)
0.039	BI	6	17.5	18	15	600	F872BI393(1)480(2)
0.039	BK	7.5	13.5	18	15	600	F872BK393(1)480(2)
0.039	BR	13	12	18	15	600	F872BR393(1)480(2)
0.039	BT	9	12.5	18	15	600	F872BT393(1)480(2)
0.047	BI	6	17.5	18	15	600	F872BI473(1)480(2)
0.047	BK	7.5	13.5	18	15	600	F872BK473(1)480(2)
0.047	BR	13	12	18	15	600	F872BR473(1)480(2)
Cap Value (μ F)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/ μ s)	Part Number

(1) $M = \pm 20\%$, $K = \pm 10\%$, $J = \pm 5\%$ on request.

(2) Insert lead and packaging code. See table for available options.

(3) $M = \pm 20\%$ (only available tolerance).

Table 1 – Ratings & Part Number Reference cont'd

Cap Value (μ F)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/ μ s)	Part Number
		B	H	L			
0.047	BT	9	12.5	18	15	600	F872BT473(1)480(2)
0.056	BI	6	17.5	18	15	600	F872BI563(3)480(2)
0.056	BK	7.5	13.5	18	15	600	F872BK563(3)480(2)
0.056	BO	7.5	18.5	18	15	600	F872BO563(1)480(2)
0.056	BP	8.5	14.5	18	15	600	F872BP563(1)480(2)
0.056	BP	8.5	14.5	18	15	600	F872BP563(1)480(2)
0.056	BR	13	12	18	15	600	F872BR563(1)480(2)
0.068	BO	7.5	18.5	18	15	600	F872BO683(1)480(2)
0.068	BP	8.5	14.5	18	15	600	F872BP683(3)480(2)
0.068	BR	13	12	18	15	600	F872BR683(1)480(2)
0.082	BO	7.5	18.5	18	15	600	F872BO823(3)480(2)
0.082	BR	13	12	18	15	600	F872BR823(1)480(2)
0.082	BS	10	16	18	15	600	F872BS823(1)480(2)
0.1	BS	10	16	18	15	600	F872BS104(3)480(2)
0.1	BY	11	19	18	15	600	F872BY104(1)480(2)
0.12	BY	11	19	18	15	600	F872BY124(3)480(2)
0.12	BZ	12	20	18	15	600	F872BZ124(1)480(2)
0.15	BZ	12	20	18	15	600	F872BZ154(3)480(2)
0.039	DB	6	14.5	26	22.5	300	F872DB393(1)480(2)
0.047	DB	6	14.5	26	22.5	300	F872DB473(1)480(2)
0.056	DB	6	14.5	26	22.5	300	F872DB563(1)480(2)
0.068	DB	6	14.5	26	22.5	300	F872DB683(1)480(2)
0.082	DI	7	16	26	22.5	300	F872DI823(1)480(2)
0.1	DI	7	16	26	22.5	300	F872DI104(1)480(2)
0.12	DH	8	16	26	22.5	300	F872DH124(1)480(2)
0.12	DI	7	16	26	22.5	300	F872DI124(3)480(2)
0.15	DJ	8.5	17	26	22.5	300	F872DJ154(3)480(2)
0.15	DM	9	18.5	26	22.5	300	F872DM154(1)480(2)
0.18	DM	9	18.5	26	22.5	300	F872DM184(3)480(2)
0.18	DO	10	18.5	26	22.5	300	F872DO184(1)480(2)
0.22	DO	10	18.5	26	22.5	300	F872DO224(3)480(2)
0.22	DP	11	20	26	22.5	300	F872DP224(1)480(2)
0.25	DU	13	22	26	22.5	300	F872DU254(1)480(2)
0.27	DU	13	22	26	22.5	300	F872DU274(1)480(2)
0.33	DU	13	22	26	22.5	300	F872DU334(1)480(2)
0.39	DU	13	22	26	22.5	300	F872DU394(3)480(2)
0.39	DY	15.5	24.5	26	22.5	300	F872DY394(1)480(2)
0.47	DY	15.5	24.5	26	22.5	300	F872DY474(1)480(2)
0.15	FB	9	17	31.5	27.5	225	F872FB154(1)480(2)
0.18	FB	9	17	31.5	27.5	225	F872FB184(1)480(2)
0.22	FB	9	17	31.5	27.5	225	F872FB224(1)480(2)
0.25	FB	9	17	31.5	27.5	225	F872FB254(1)480(2)
0.25	FH	21	12.5	31.5	27.5	225	F872FH254(1)480(2)
0.27	FB	9	17	31.5	27.5	225	F872FB274(1)480(2)
0.27	FH	21	12.5	31.5	27.5	225	F872FH274(1)480(2)
0.33	FC	11	20	31.5	27.5	225	F872FC334(1)480(2)
0.33	FH	21	12.5	31.5	27.5	225	F872FH334(1)480(2)
0.39	FC	11	20	31.5	27.5	225	F872FC394(1)480(2)
0.39	FH	21	12.5	31.5	27.5	225	F872FH394(1)480(2)
0.47	FC	11	20	31.5	27.5	225	F872FC474(3)480(2)
0.47	FH	21	12.5	31.5	27.5	225	F872FH474(1)480(2)
0.47	FI	13	25	31.5	27.5	225	F872FI474(1)480(2)
0.56	FH	21	12.5	31.5	27.5	225	F872FH564(3)480(2)
0.56	FI	13	25	31.5	27.5	225	F872FI564(1)480(2)
0.56	FQ	27.5	16	31.5	27.5	225	F872FQ564(1)480(2)
0.68	FI	13	25	31.5	27.5	225	F872FI684(1)480(2)
0.68	FQ	27.5	16	31.5	27.5	225	F872FQ684(1)480(2)
0.82	FI	13	25	31.5	27.5	225	F872FI824(3)480(2)
0.82	FN	14	28	31.5	27.5	225	F872FN824(1)480(2)
Cap Value (μ F)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/ μ s)	Part Number

(1) $M = \pm 20\%$, $K = \pm 10\%$, $J = \pm 5\%$ on request.

(2) Insert lead and packaging code. See table for available options.

(3) $M = \pm 20\%$ (only available tolerance).

Table 1 – Ratings & Part Number Reference cont'd

Cap Value (μ F)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/ μ s)	Part Number
		B	H	L			
0.82	FQ	27.5	16	31.5	27.5	225	F872FQ824(1)480(2)
1	FO	17	40	31.5	27.5	225	F872FO105(1)480(2)
1	FQ	27.5	16	31.5	27.5	225	F872FQ105(3)480(2)
1	FR	17.5	28	31.5	27.5	225	F872FR105(1)480(2)
1	FT	31	19	31.5	27.5	225	F872FT105(1)480(2)
1.2	FO	17	40	31.5	27.5	225	F872FO125(1)480(2)
1.2	FR	17.5	28	31.5	27.5	225	F872FR125(1)480(2)
1.2	FS	19	29	31.5	27.5	225	F872FS125(1)480(2)
1.2	FT	31	19	31.5	27.5	225	F872FT125(1)480(2)
1.5	FO	17	40	31.5	27.5	225	F872FO155(1)480(2)
1.5	FS	19	29	31.5	27.5	225	F872FS155(3)480(2)
1.5	FY	22	37	31.5	27.5	225	F872FY155(1)480(2)
1.8	FY	22	37	31.5	27.5	225	F872FY185(1)480(2)
2.2	FY	22	37	31.5	27.5	225	F872FY225(3)480(2)
0.33	RB	11	22	41	37.5	150	F872RB334(1)480(2)
0.39	RB	11	22	41	37.5	150	F872RB394(1)480(2)
0.47	RB	11	22	41	37.5	150	F872RB474(1)480(2)
0.56	RB	11	22	41	37.5	150	F872RB564(1)480(2)
0.56	RV	24	15	41	37.5	150	F872RV564(1)480(2)
0.68	RB	11	22	41	37.5	150	F872RB684(1)480(2)
0.68	RV	24	15	41	37.5	150	F872RV684(1)480(2)
0.82	RB	11	22	41	37.5	150	F872RB824(3)480(2)
0.82	RF	13	24	41	37.5	150	F872RF824(1)480(2)
0.82	RV	24	15	41	37.5	150	F872RV824(1)480(2)
1	RF	13	24	41	37.5	150	F872RF105(1)480(2)
1	RV	24	15	41	37.5	150	F872RV105(1)480(2)
1.2	RH	15	26	41	37.5	150	F872RH125(1)480(2)
1.2	RV	24	15	41	37.5	150	F872RV125(3)480(2)
1.2	RW	24	19	41	37.5	150	F872RW125(1)480(2)
1.5	RC	16	28.5	41	37.5	150	F872RC155(1)480(2)
1.5	RH	15	26	41	37.5	150	F872RH155(3)480(2)
1.5	RW	24	19	41	37.5	150	F872RW155(1)480(2)
1.8	RC	16	28.5	41	37.5	150	F872RC185(3)480(2)
1.8	RD	19	32	41	37.5	150	F872RD185(1)480(2)
2.2	RD	19	32	41	37.5	150	F872RD225(1)480(2)
2.5	RP	21	38	41	37.5	150	F872RP255(1)480(2)
2.7	RP	21	38	41	37.5	150	F872RP275(1)480(2)
3.3	RO	24	44	41	37.5	150	F872RO335(1)480(2)
3.9	RO	24	44	41	37.5	150	F872RO395(1)480(2)
4.7	RO	24	44	41	37.5	150	F872RO475(3)480(2)
4.7	RU	30	45	41	37.5	150	F872RU475(1)480(2)
5.6	RU	30	45	41	37.5	150	F872RU565(1)480(2)
Cap Value (μ F)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/ μ s)	Part Number

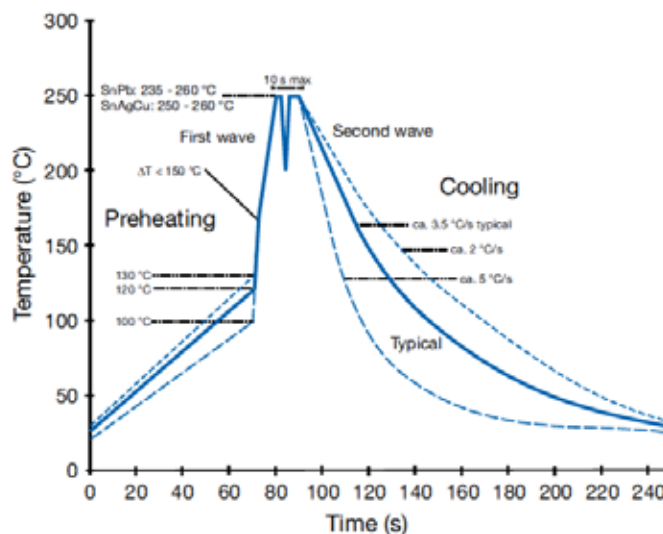
(1) M = $\pm 20\%$, K = $\pm 10\%$, J = $\pm 5\%$ on request.

(2) Insert lead and packaging code. See table for available options.

(3) M = $\pm 20\%$ (only available tolerance).

Soldering Process

The implementation of the RoHS Directive has required the use of SnAuCu (SAC) or SnCu alloys as primary solder. These alloys require a higher liquidus temperature (217°C – 221°C) as compared to SnPb eutectic alloy (183°C). Due to the higher pre-heat and wave temperatures, the heat stress to components has increased considerably. Polypropylene capacitors are especially sensitive to soldering temperature due to the relatively low melting point of polypropylene material (160°C – 170°C). As a result, wave soldering can be destructive, especially to mechanically small polypropylene capacitors with lead spacings of 5 – 10 mm. For more information, please refer to KEMET's Recommended Soldering Profiles or contact a KEMET representative. IEC Publication 61760–1 Edition 2 may also be consulted for general guidelines.



Marking

- KEMET or KEC
- Series
- Capacitance
- Capacitance tolerance
- Rated voltage
- X1
- Approval marks
- Manufacturing date code
- IEC climatic category
- Passive flammability class

Lateral Marking	Top Marking

Packaging Quantities

Size Code	Lead Spacing	Thickness (mm)	Height (mm)	Length (mm)	Bulk Short Leads	Bulk Long Leads	Standard Reel ø 355 mm	Large Reel ø 500 mm	Ammo	Pizza
AN	10	3.5	9	13	2200	3200	850	1700	1150	
AG		4	9	13	2000	2200	750	1500	1000	
AK		5	11	13	1300	2000	600	1250	800	
AP		6	12	13	1000	1800	500	1000	680	
AO		7	17	13	600	900	450	900	580	
AL		9.5	7.5	13	1100	2000	300	600	430	
AE		4	8	13	2000	2200	750	1500	1000	
BB	15	4	10	18	1300	1500	750	1500	1000	1411
BC		5	11	18	1000	1250	600	1250	800	1139
BE		5.5	12.5	18	800	1100	550	1100	750	1020
BG		6	12	18	1750	1000	500	1000	680	935
BK		7.5	13.5	18	1000	800	350	800	500	748
BI		6	17.5	18	1000	800	500	1000	680	935
BP		8.5	14.5	18	1000	650	300	700	440	663
BT		9	12.5	18	1000	700	270	650	410	629
BO		7.5	18.5	18	900	600	350	800	500	748
BS		10	16	18	750	550	300	600	380	561
BR		13	12	18	750	520	200	480	280	425
BY		11	19	18	450	400	250	500	340	510
BA		8.5	12.5	18	1000	650	300	700	440	663
BZ		12	20	18	350	300	220	450	330	459
DB	22.5	6	14.5	26	1638	702	300	700	464	660
DI		7	16	26	1188	594	250	550	380	564
DH		8.0	16.0	26	1026	513	240	500	330	492
DJ		8.5	17	26	972	486	250	450	280	468
DM		9	18.5	26	918	459	200	400	300	444
DO		10	18.5	26	810	405	160	350	235	396
DP		11	20	26	756	378	190	350	217	360
DU		13	22	26	540	324	150	300	200	300
DY		15.5	24.5	26	450	270	120	250	170	252

Packaging Quantities cont'd

Size Code	Lead Spacing	Thickness (mm)	Height (mm)	Length (mm)	Bulk Short Leads	Bulk Long Leads	Standard Reel ø 355 mm	Large Reel ø 500 mm	Ammo	Pizza
FB	27.5	9.0	17.0	31.5	816	408				370
FC		11.0	20.0	31.5	672	336				300
FI		13.0	25.0	31.5	480	288				250
FN		14.0	28.0	31.5	352	176				230
FO		17.0	40.0	31.5	216	144				190
FR		17.5	28.0	31.5	256	128				190
FS		19.0	29.0	31.5	256	128				170
FY		22.0	37.0	31.5	168	112				150
FH		21.0	12.5	31.5	392	168				150
FQ		27.5	16.0	31.5	280	120				120
FT		31.0	19.0	31.5	240	120				100
RB	37.5	11.0	22.0	41.0	420	252				210
RF		13.0	24.0	41.0	360	216				175
RH		15.0	26.0	41.0	300	180				154
RC		16.0	28.5	41.0	216	108				140
RD		19.0	32.0	41.0	192	96				119
RP		21.0	38.0	41.0	126	84				105
RO		24.0	44.0	41.0	108	72				91
RU		30.0	45.0	41.0	90	60				77
RV		24.0	15.0	41.0	252	108				91
RW		24.0	19.0	41.0	216	108				91

F873 Series Polypropylene Metallized Film, Class X1, 760 VAC



Overview

Metallized polypropylene film encapsulated with self-extinguishing resin in a box of material recognized to UL 94 V-0.

Applications

For worldwide use as electromagnetic interference suppressor in all X1 and across-the-line applications.

Benefits

- Approvals: ENEC, UL, cUL, CQC
- Rated voltage: 760 VAC 50/60 Hz
- Capacitance range: 0.01 – 1.8 μ F
- Lead spacing: 22.5 – 37.5 mm
- Capacitance tolerance: $\pm 20\%$, $\pm 10\%$, $\pm 5\%$ on request
- Climatic category 40/110/56, IEC 60068-1
- Tape and reel in accordance with IEC 60286-2
- RoHS Compliant and lead-free terminations
- Operating temperature range of -40°C to +110°C
- 100% screening factory test at 4,250 VDC



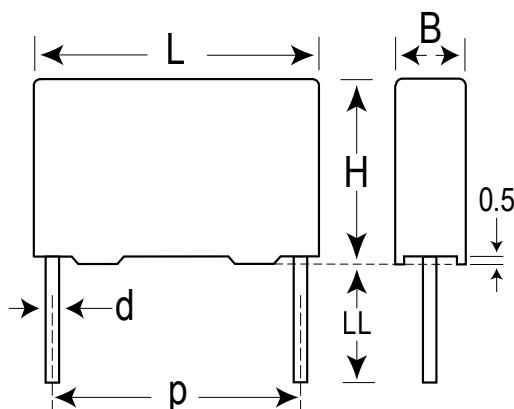
Part Number System

F	873	D	U	104	M	760	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Voltage (VAC)	Lead and Packaging Code
F = Film	X1, Metallized Polypropylene	D = 22.5 F = 27.5 R = 37.5	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	760	See Ordering Options Table

Ordering Options Table

Lead Spacing Nominal (mm)	Type of Leads and Packaging	Lead Length (mm)	Lead and Packaging Code
22.5	Standard Lead and Packaging Options		
	Bulk (Tray) – Short Leads	4 +2/-0	C
	Bulk (Tray) – Long Leads	17 +0/-1	A
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Other Lead and Packaging Options		
	Tape & Reel (Large Reel)	H ₀ = 18.5 +/-0.5	P
	Ammo Pack	H ₀ = 18.5 +/-0.5	R
	Pizza Pack	4 +2/-0	Z
27.5	Standard Lead and Packaging Options		
	Bulk (Tray) – Short Leads	4 +2/-0	C
	Bulk (Tray) – Long Leads	17 +0/-1	A
	Pizza Pack	4 +2/-0	Z
37.5	Standard Lead and Packaging Options		
	Bulk (Tray) – Short Leads	4 +2/-0	C
	Bulk (Tray) – Long Leads	17 +0/-1	A
	Pizza Pack	4 +2/-0	Z

Dimensions – Millimeters



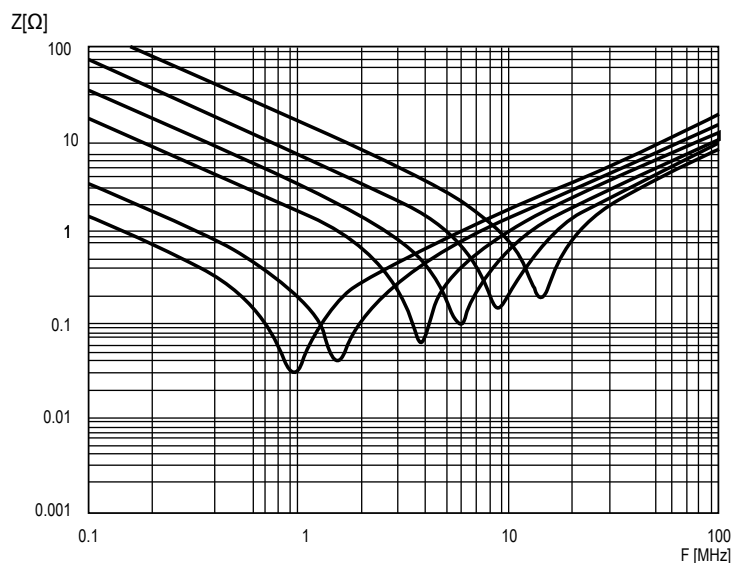
Size Code	Version	p		B		H		L		d	
		Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
DB		22.5	+/-0.4	6.0	Max	14.5	Max	26.0	Max	0.8	+/-0.05
DI		22.5	+/-0.4	7.0	Max	16.0	Max	26.0	Max	0.8	+/-0.05
DH		22.5	+/-0.4	8.0	Max	16.0	Max	26.0	Max	0.8	+/-0.05
DJ		22.5	+/-0.4	8.5	Max	17.0	Max	26.0	Max	0.8	+/-0.05
DM		22.5	+/-0.4	9.0	Max	18.5	Max	26.0	Max	0.8	+/-0.05
DO		22.5	+/-0.4	10.0	Max	18.5	Max	26.0	Max	0.8	+/-0.05
DP		22.5	+/-0.4	11.0	Max	20.0	Max	26.0	Max	0.8	+/-0.05
DU		22.5	+/-0.4	13.0	Max	22.0	Max	26.0	Max	0.8	+/-0.05
DY		22.5	+/-0.4	15.5	Max	24.5	Max	26.0	Max	0.8	+/-0.05
FB		27.5	+/-0.4	9.0	Max	17.0	Max	31.5	Max	0.8	+/-0.05
FC		27.5	+/-0.4	11.0	Max	20.0	Max	31.5	Max	0.8	+/-0.05
FI		27.5	+/-0.4	13.0	Max	25.0	Max	31.5	Max	0.8	+/-0.05
FN		27.5	+/-0.4	14.0	Max	28.0	Max	31.5	Max	0.8	+/-0.05
FO	High Profile	27.5	+/-0.4	17.0	Max	40.0	Max	31.5	Max	0.8	+/-0.05
FR		27.5	+/-0.4	17.5	Max	28.0	Max	31.5	Max	0.8	+/-0.05
FS		27.5	+/-0.4	19.0	Max	29.0	Max	31.5	Max	0.8	+/-0.05
FY		27.5	+/-0.4	22.0	Max	37.0	Max	31.5	Max	0.8	+/-0.05
FH	Low Profile	27.5	+/-0.4	21.0	Max	12.5	Max	31.5	Max	0.8	+/-0.05
FQ	Low Profile	27.5	+/-0.4	27.5	Max	16.0	Max	31.5	Max	0.8	+/-0.05
FT	Low Profile	27.5	+/-0.4	31.0	Max	19.0	Max	31.5	Max	0.8	+/-0.05
RB		37.5	+/-0.4	11.0	Max	22.0	Max	41.0	Max	1	+/-0.05
RF		37.5	+/-0.4	13.0	Max	24.0	Max	41.0	Max	1	+/-0.05
RH		37.5	+/-0.4	15.0	Max	26.0	Max	41.0	Max	1	+/-0.05
RC		37.5	+/-0.4	16.0	Max	28.5	Max	41.0	Max	1	+/-0.05
RD		37.5	+/-0.4	19.0	Max	32.0	Max	41.0	Max	1	+/-0.05
RP		37.5	+/-0.4	21.0	Max	38.0	Max	41.0	Max	1	+/-0.05
RO		37.5	+/-0.4	24.0	Max	44.0	Max	41.0	Max	1	+/-0.05
RU		37.5	+/-0.4	30.0	Max	45.0	Max	41.0	Max	1	+/-0.05
RV	Low Profile	37.5	+/-0.4	24.0	Max	15.0	Max	41.0	Max	1	+/-0.05
RW	Low Profile	37.5	+/-0.4	24.0	Max	19.0	Max	41.0	Max	1	+/-0.05

Note: See Ordering Options Table for lead length (LL) options.

Performance Characteristics

Rated Voltage	760 VAC 50/60 Hz		
Capacitance Range	0.01 – 1.8 μ F		
Capacitance Tolerance	$\pm$ 20%, $\pm$ 10%, $\pm$ 5% on request		
Temperature Range	-40°C to +110°C		
Climatic Category	40/110/56		
Approvals	ENEC, UL, cUL, CQC (pending)		
Dissipation Factor	Maximum Values at +23°C		
		C $\leq$ 0.1 μ F	C > 0.1 μ F
	1 kHz	0.1%	0.1%
Test Voltage Between Terminals	The 100% screening factory test is carried out at 4,250 VDC. The voltage level is selected to meet the requirements in applicable equipment standards. All electrical characteristics are checked after the test. It is not permitted to repeat this test as there is a risk to damage the capacitor. KEMET is not liable in such case for any failures.		
Insulation Resistance	Between Terminals:		
	C $\leq$ 0.33 μ F	$\geq$ 30,000 M Ω	
	C > 0.33 μ F	$\geq$ 10,000 M Ω • μ F	
In DC Applications	Recommended voltage $\leq$ 1,500 VDC		

Impedance Graph



Environmental Test Data

Test	IEC Publication	Procedure
Endurance	IEC 60384-14	$1.25 \times V_R$ VAC 50 Hz, once every hour increase to 1,000 VAC for 0.1 second, 1,000 hours at upper rated temperature
Vibration	IEC 60068-2-6 Test Fc	3 directions at 2 hours each 10 – 55 Hz at 0.75 mm or 98 m/s ²
Bump	IEC 60068-2-29 Test Eb	1,000 bumps at 390 m/s ²
Change of Temperature	IEC 60068-2-14 Test Na	Upper and lower rated temperature 5 cycles
Active Flammability	IEC 60384-14	$V_R + 20$ surge pulses at 4 kV (pulse every 5 seconds)
Passive Flammability	IEC 60384-14	IEC 60384-1, IEC 60695-11-5 Needle-flame test
Damp Heat Steady State	IEC 60068-2-78 Test Cab	+40°C and 93% RH, 56 days

Approvals

Mark	Specification	File Number
	EN/IEC 60384-14	Pending
	UL 60384-14 and CAN/CSA-E60384-14	Pending
	GB/T 14472	Pending

Environmental Compliance

All new KEMET EMI capacitors are RoHS Compliant and Halogen Free.



Table 1 – Ratings & Part Number Reference

Cap Value (μ F)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/ μ s)	Part Number
		B	H	L			
0.01	DB	6	14.5	26	22.5	300	F873DB103(1)760(2)
0.012	DB	6	14.5	26	22.5	300	F873DB123(1)760(2)
0.015	DB	6	14.5	26	22.5	300	F873DB153(1)760(2)
0.018	DB	6	14.5	26	22.5	300	F873DB183(1)760(2)
0.022	DB	6	14.5	26	22.5	300	F873DB223(1)760(2)
0.025	DB	6	14.5	26	22.5	300	F873DB253(3)760(2)
0.025	DI	7	16	26	22.5	300	F873DI253(1)760(2)
0.027	DI	7	16	26	22.5	300	F873DI273(1)760(2)
0.033	DI	7	16	26	22.5	300	F873DI333(1)760(2)
0.039	DI	7	16	26	22.5	300	F873DI393(1)760(2)
0.047	DH	8	16	26	22.5	300	F873DH473(3)760(2)
0.047	DJ	8.5	17	26	22.5	300	F873DJ473(1)760(2)
0.056	DJ	8.5	17	26	22.5	300	F873DJ563(3)760(2)
0.056	DM	9	18.5	26	22.5	300	F873DM563(1)760(2)
0.068	DO	10	18.5	26	22.5	300	F873DO683(1)760(2)
0.082	DO	10	18.5	26	22.5	300	F873DO823(3)760(2)
0.082	DP	11	20	26	22.5	300	F873DP823(1)760(2)
0.1	DP	11	20	26	22.5	300	F873DP104(3)760(2)
0.1	DU	13	22	26	22.5	300	F873DU104(1)760(2)
0.12	DU	13	22	26	22.5	300	F873DU124(1)760(2)
0.15	DY	15.5	24.5	26	22.5	300	F873DY154(1)760(2)
0.18	DY	15.5	24.5	26	22.5	300	F873DY184(1)760(2)
0.056	FB	9	17	31.5	27.5	225	F873FB563(1)760(2)
0.068	FB	9	17	31.5	27.5	225	F873FB683(1)760(2)
0.082	FB	9	17	31.5	27.5	225	F873FB823(3)760(2)
0.082	FC	11	20	31.5	27.5	225	F873FC823(1)760(2)
0.1	FC	11	20	31.5	27.5	225	F873FC104(1)760(2)
0.1	FH	21	12.5	31.5	27.5	225	F873FH104(1)760(2)
0.12	FC	11	20	31.5	27.5	225	F873FC124(3)760(2)
0.12	FH	21	12.5	31.5	27.5	225	F873FH124(1)760(2)
0.15	FH	21	12.5	31.5	27.5	225	F873FH154(3)760(2)
0.15	FI	13	25	31.5	27.5	225	F873FI154(1)760(2)
0.18	FI	13	25	31.5	27.5	225	F873FI184(1)760(2)
0.22	FI	13	25	31.5	27.5	225	F873FI224(3)760(2)
0.22	FN	14	28	31.5	27.5	225	F873FN224(1)760(2)
0.22	FQ	27.5	16	31.5	27.5	225	F873FQ224(1)760(2)
0.25	FN	14	28	31.5	27.5	225	F873FN254(3)760(2)
0.25	FO	17	40	31.5	27.5	225	F873FO254(1)760(2)
0.25	FQ	27.5	16	31.5	27.5	225	F873FQ254(3)760(2)
0.25	FR	17.5	28	31.5	27.5	225	F873FR254(1)760(2)
0.27	FO	17	40	31.5	27.5	225	F873FO274(1)760(2)
0.27	FR	17.5	28	31.5	27.5	225	F873FR274(1)760(2)
0.27	FT	31	19	31.5	27.5	225	F873FT274(1)760(2)
0.33	FO	17	40	31.5	27.5	225	F873FO334(1)760(2)
0.33	FR	17.5	28	31.5	27.5	225	F873FR334(3)760(2)
0.33	FS	19	29	31.5	27.5	225	F873FS334(1)760(2)
0.33	FT	31	19	31.5	27.5	225	F873FT334(1)760(2)
0.39	FO	17	40	31.5	27.5	225	F873FO394(1)760(2)
0.39	FS	19	29	31.5	27.5	225	F873FS394(3)760(2)
0.39	FY	22	37	31.5	27.5	225	F873FY394(1)760(2)
0.47	FY	22	37	31.5	27.5	225	F873FY474(1)760(2)
0.56	FY	22	37	31.5	27.5	225	F873FY564(1)760(2)
0.15	RB	11	22	41	37.5	150	F873RB154(1)760(2)
0.18	RB	11	22	41	37.5	150	F873RB184(1)760(2)
0.22	RB	11	22	41	37.5	150	F873RB224(3)760(2)
0.22	RV	24	15	41	37.5	150	F873RV224(1)760(2)
0.25	RF	13	24	41	37.5	150	F873RF254(1)760(2)
0.25	RV	24	15	41	37.5	150	F873RV254(1)760(2)
0.27	RF	13	24	41	37.5	150	F873RF274(1)760(2)
Cap Value (μ F)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/ μ s)	Part Number

(1) $M = \pm 20\%$, $K = \pm 10\%$, $J = \pm 5\%$ on request.

(2) Insert lead and packaging code. See table for available options.

(3) $M = \pm 20\%$ (only available tolerance).

Table 1 – Ratings & Part Number Reference cont'd

Cap Value (μ F)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/ μ s)	Part Number
		B	H	L			
0.27	RV	24	15	41	37.5	150	F873RV274(1)760(2)
0.33	RF	13	24	41	37.5	150	F873RF334(3)760(2)
0.33	RH	15	26	41	37.5	150	F873RH334(1)760(2)
0.33	RV	24	15	41	37.5	150	F873RV334(3)760(2)
0.33	RW	24	19	41	37.5	150	F873RW334(1)760(2)
0.39	RC	16	28.5	41	37.5	150	F873RC394(1)760(2)
0.39	RW	24	19	41	37.5	150	F873RW394(1)760(2)
0.47	RC	16	28.5	41	37.5	150	F873RC474(3)760(2)
0.47	RD	19	32	41	37.5	150	F873RD474(1)760(2)
0.47	RW	24	19	41	37.5	150	F873RW474(3)760(2)
0.56	RD	19	32	41	37.5	150	F873RD564(1)760(2)
0.68	RD	19	32	41	37.5	150	F873RD684(3)760(2)
0.68	RP	21	38	41	37.5	150	F873RP684(1)760(2)
0.82	RO	24	44	41	37.5	150	F873RO824(1)760(2)
0.82	RP	21	38	41	37.5	150	F873RP824(3)760(2)
1	RO	24	44	41	37.5	150	F873RO105(1)760(2)
1.2	RO	24	44	41	37.5	150	F873RO125(1)760(2)
1.5	RU	30	45	41	37.5	150	F873RU155(1)760(2)
1.8	RU	30	45	41	37.5	150	F873RU185(3)760(2)
Cap Value (μ F)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/ μ s)	Part Number

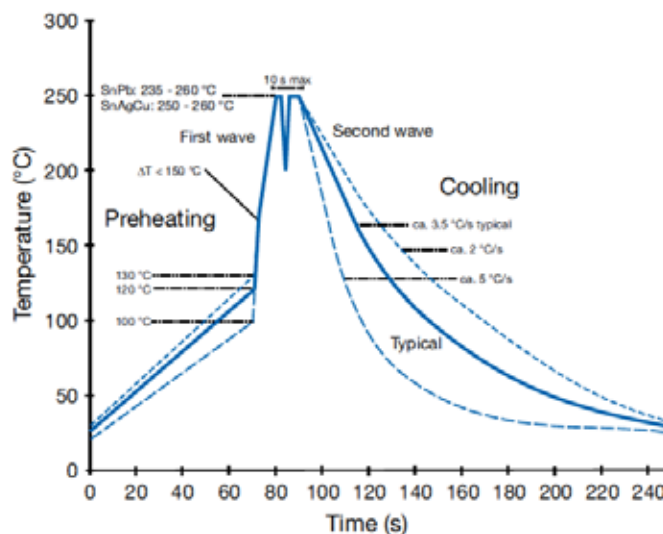
(1) $M = \pm 20\%$, $K = \pm 10\%$, $J = \pm 5\%$ on request.

(2) Insert lead and packaging code. See table for available options.

(3) $M = \pm 20\%$ (only available tolerance).

Soldering Process

The implementation of the RoHS Directive has required the use of SnAuCu (SAC) or SnCu alloys as primary solder. These alloys require a higher liquidus temperature (217°C – 221°C) as compared to SnPb eutectic alloy (183°C). Due to the higher pre-heat and wave temperatures, the heat stress to components has increased considerably. Polypropylene capacitors are especially sensitive to soldering temperature due to the relatively low melting point of polypropylene material (160°C – 170°C). As a result, wave soldering can be destructive, especially to mechanically small polypropylene capacitors with lead spacings of 5 – 10 mm. For more information, please refer to KEMET's Recommended Soldering Profiles or contact a KEMET representative. IEC Publication 61760–1 Edition 2 may also be consulted for general guidelines.



Marking

- KEMET or KEC
- Series
- Capacitance
- Capacitance tolerance
- Rated voltage
- X1
- Approval marks
- Manufacturing date code
- IEC climatic category
- Passive flammability class

Lateral Marking	Top Marking

Packaging Quantities

Size Code	Lead Spacing	Thickness (mm)	Height (mm)	Length (mm)	Bulk Short Leads	Bulk Long Leads	Standard Reel ø 355 mm	Large Reel ø 500 mm	Ammo	Pizza
DB	22.5	6	14.5	26	1638	702	300	700	464	660
DI		7	16	26	1188	594	250	550	380	564
DH		8.0	16.0	26	1026	513	240	500	330	492
DJ		8.5	17	26	972	486	250	450	280	468
DM		9	18.5	26	918	459	200	400	300	444
DO		10	18.5	26	810	405	160	350	235	396
DP		11	20	26	756	378	190	350	217	360
DU		13	22	26	540	324	150	300	200	300
DY		15.5	24.5	26	450	270	120	250	170	252
FB	27.5	9.0	17.0	31.5	816	408				370
FC		11.0	20.0	31.5	672	336				300
FI		13.0	25.0	31.5	480	288				250
FN		14.0	28.0	31.5	352	176				230
FO		17.0	40.0	31.5	216	144				190
FR		17.5	28.0	31.5	256	128				190
FS		19.0	29.0	31.5	256	128				170
FY		22.0	37.0	31.5	168	112				150
FH		21.0	12.5	31.5	392	168				150
FQ		27.5	16.0	31.5	280	120				120
FT		31.0	19.0	31.5	240	120				100
RB	37.5	11.0	22.0	41.0	420	252				210
RF		13.0	24.0	41.0	360	216				175
RH		15.0	26.0	41.0	300	180				154
RC		16.0	28.5	41.0	216	108				140
RD		19.0	32.0	41.0	192	96				119
RP		21.0	38.0	41.0	126	84				105
RO		24.0	44.0	41.0	108	72				91
RU		30.0	45.0	41.0	90	60				77
RV		24.0	15.0	41.0	252	108				91
RW		24.0	19.0	41.0	216	108				91

F861 Series Metallized Polypropylene Film, Class X2, 310 VAC



Overview

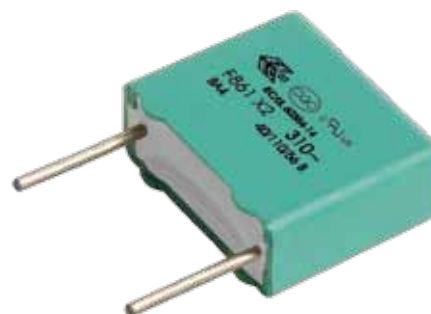
Metallized polypropylene film encapsulated with self-extinguishing resin in a box of material recognized to UL 94 V-0.

Applications

For worldwide use as electromagnetic interference suppressor in all X2 and across-the-line applications. Not for use in series with the mains.

Benefits

- Approvals: ENEC, UL, cUL, CQC
- Rated voltage: 310 VAC 50/60 Hz
- Capacitance range: 0.001 – 45 μ F
- Lead spacing: 7.5 – 52.5 mm
- Capacitance tolerance: $\pm 20\%$, $\pm 10\%$, $\pm 5\%$ on request
- Climatic category 40/110/56, IEC 60068-1
- Tape and reel in accordance with IEC 60286-2
- RoHS Compliant and lead-free terminations
- Operating temperature range of -40°C to $+110^{\circ}\text{C}$
- 100% screening factory test at 1,900 VDC



Part Number System

F	861	B	C	104	M	310	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Voltage (VAC)	Lead and Packaging Code
F = Film	X2, Metallized Polypropylene	K = 7.5 A = 10 B = 15 D = 22.5 F = 27.5 R = 37.5 G = 52.5	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	310	See Ordering Options Table

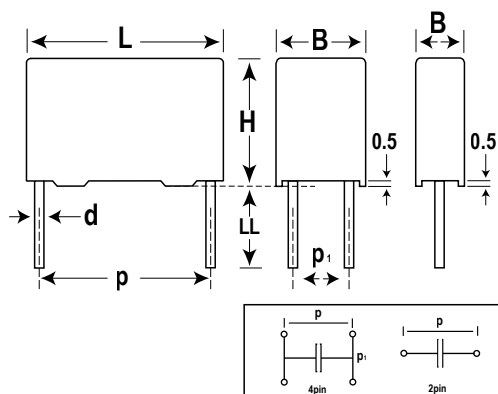
Ordering Options Table

Lead Spacing Nominal (mm)	Type of Leads and Packaging	Lead Length (mm)	Lead and Packaging Code
7.5	Standard Lead and Packaging Options		
	Bulk (Bag) – Short Leads	4 +2/-0	C
	Bulk (Bag) – Long Leads	17 +0/-1	A
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Other Lead and Packaging Options		
	Bulk (Bag) – Max Length Leads	20 +5/-0	ALL0L
	Ammo Pack	H ₀ = 18.5 +/-0.5	R

Ordering Options Table cont'd

Lead Spacing Nominal (mm)	Type of Leads and Packaging	Lead Length (mm)	Lead and Packaging Code
10	Standard Lead and Packaging Options		
	Bulk (Bag) – Short Leads	4 +2/-0	C
	Bulk (Bag) – Long Leads	17 +0/-1	A
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Other Lead and Packaging Options		
	Bulk (Bag) – Max Length Leads	20 +5/-0	ALL0L
	Ammo Pack	H ₀ = 18.5 +/-0.5	R
	Tape & Reel (Large Reel)	H ₀ = 18.5 +/-0.5	P
15	Standard Lead and Packaging Options		
	Bulk (Bag) – Short Leads	4 +2/-0	C
	Bulk (Bag) – Long Leads	17 +0/-1	A
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Pizza Pack	4 +2/-0	Z
	Other Lead and Packaging Options		
	Bulk (Bag) – Max Length Leads	25 +5/-0	ALR0L
	Ammo Pack	H ₀ = 18.5 +/-0.5	R
	Tape & Reel (Large Reel)	H ₀ = 18.5 +/-0.5	P
22.5	Standard Lead and Packaging Options		
	Bulk (Tray) – Short Leads	4 +2/-0	C
	Bulk (Tray) – Long Leads	17 +0/-1	A
	Pizza Pack	4 +2/-0	Z
	Other Lead and Packaging Options		
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Tape & Reel (Large Reel)	H ₀ = 18.5 +/-0.5	P
	Ammo Pack	H ₀ = 18.5 +/-0.5	R
27.5	Standard Lead and Packaging Options		
	Bulk (Tray) – Short Leads	4 +2/-0	C
	Bulk (Tray) – Long Leads	17 +0/-1	A
	Pizza Pack	4 +2/-0	Z
37.5	Standard Lead and Packaging Options		
	Bulk (Tray) – Short Leads	4 +2/-0	C
	Bulk (Tray) – Long Leads	17 +0/-1	A
	Pizza Pack	4 +2/-0	Z
52.5	Standard Lead and Packaging Options		
	Bulk (Tray) – 4 Lead	4 +2/-0	H
	Pizza Pack – 4 Lead	4 +2/-0	Z

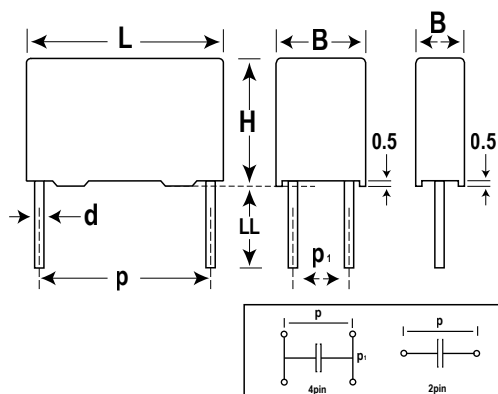
Dimensions – Millimeters



Size Code	Version	p		p ¹		B		H		L		d	
		Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
KF		7.5	+/-0.4			3	Max	8	Max	10	Max	0.6	+/-0.05
KG		7.5	+/-0.4			4	Max	8	Max	10	Max	0.6	+/-0.05
KH		7.5	+/-0.4			4	Max	9	Max	10	Max	0.6	+/-0.05
KJ		7.5	+/-0.4			5	Max	10.5	Max	10	Max	0.6	+/-0.05
KM		7.5	+/-0.4			6	Max	12	Max	10.5	Max	0.6	+/-0.05
AG		10.0	+/-0.4			4.0	Max	9.0	Max	13.0	Max	0.6	+/-0.05
AK		10.0	+/-0.4			5.0	Max	11.0	Max	13.0	Max	0.6	+/-0.05
AP		10.0	+/-0.4			6.0	Max	12.0	Max	13.0	Max	0.6	+/-0.05
AO		10.0	+/-0.4			7.0	Max	17.0	Max	13.0	Max	0.6	+/-0.05
AL	Low Profile	10.0	+/-0.4			9.5	Max	7.5	Max	13.0	Max	0.6	+/-0.05
AE	Special Version	10.0	+/-0.4			4.0	Max	8.0	Max	13.0	Max	0.6	+/-0.05
BB		15.0	+/-0.4			4.0	Max	10.0	Max	18.0	Max	0.8	+/-0.05
BC		15.0	+/-0.4			5.0	Max	11.0	Max	18.0	Max	0.8	+/-0.05
BE		15.0	+/-0.4			5.5	Max	12.5	Max	18.0	Max	0.8	+/-0.05
BG		15.0	+/-0.4			6.0	Max	12.0	Max	18.0	Max	0.8	+/-0.05
BI	High Profile	15.0	+/-0.4			6.0	Max	17.5	Max	18.0	Max	0.8	+/-0.05
BK		15.0	+/-0.4			7.5	Max	13.5	Max	18.0	Max	0.8	+/-0.05
BO	High Profile	15.0	+/-0.4			7.5	Max	18.5	Max	18.0	Max	0.8	+/-0.05
BP		15.0	+/-0.4			8.5	Max	14.5	Max	18.0	Max	0.8	+/-0.05
BT		15.0	+/-0.4			9.0	Max	12.5	Max	18.0	Max	0.8	+/-0.05
BS		15.0	+/-0.4			10.0	Max	16.0	Max	18.0	Max	0.8	+/-0.05
BY		15.0	+/-0.4			11.0	Max	19.0	Max	18.0	Max	0.8	+/-0.05
BZ	Special Version	15.0	+/-0.4			12.0	Max	20.0	Max	18.0	Max	0.8	+/-0.05
BR	Low Profile	15.0	+/-0.4			13.0	Max	12.0	Max	18.0	Max	0.8	+/-0.05
DB		22.5	+/-0.4			6.0	Max	14.5	Max	26.0	Max	0.8	+/-0.05
DI		22.5	+/-0.4			7.0	Max	16.0	Max	26.0	Max	0.8	+/-0.05
DH		22.5	+/-0.4			8.0	Max	16.0	Max	26.0	Max	0.8	+/-0.05
DJ		22.5	+/-0.4			8.5	Max	17.0	Max	26.0	Max	0.8	+/-0.05
DM		22.5	+/-0.4			9.0	Max	18.5	Max	26.0	Max	0.8	+/-0.05
DO		22.5	+/-0.4			10.0	Max	18.5	Max	26.0	Max	0.8	+/-0.05
DP		22.5	+/-0.4			11.0	Max	20.0	Max	26.0	Max	0.8	+/-0.05

Note: See Ordering Options Table for lead length (LL) options.

Dimensions – Millimeters cont'd



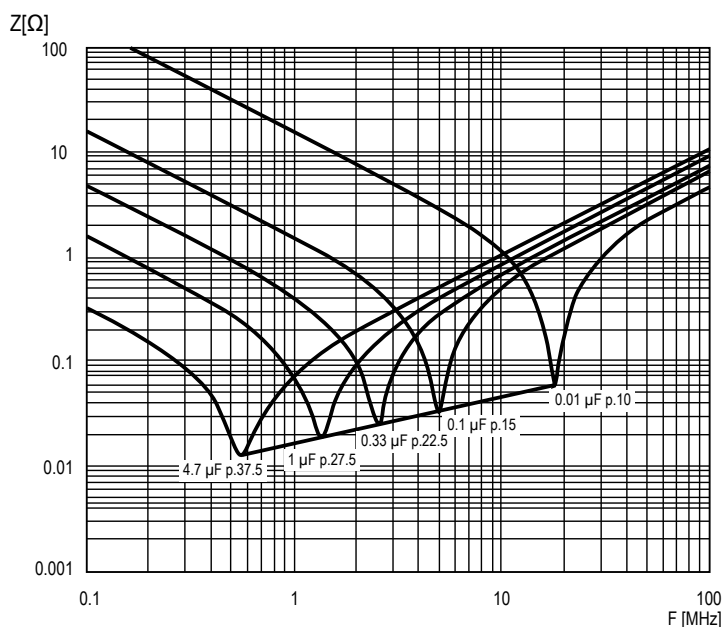
Size Code	Version	p		p ¹		B		H		L		d	
		Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
DU		22.5	+/-0.4			13.0	Max	22.0	Max	26.0	Max	0.8	+/-0.05
DY		22.5	+/-0.4			15.5	Max	24.5	Max	26.0	Max	0.8	+/-0.05
FB		27.5	+/-0.4			9.0	Max	17.0	Max	31.5	Max	0.8	+/-0.05
FC		27.5	+/-0.4			11.0	Max	20.0	Max	31.5	Max	0.8	+/-0.05
FI		27.5	+/-0.4			13.0	Max	25.0	Max	31.5	Max	0.8	+/-0.05
FN		27.5	+/-0.4			14.0	Max	28.0	Max	31.5	Max	0.8	+/-0.05
FO	High Profile	27.5	+/-0.4			17.0	Max	40.0	Max	31.5	Max	0.8	+/-0.05
FR		27.5	+/-0.4			17.5	Max	28.0	Max	31.5	Max	0.8	+/-0.05
FS		27.5	+/-0.4			19.0	Max	29.0	Max	31.5	Max	0.8	+/-0.05
FY		27.5	+/-0.4			22.0	Max	37.0	Max	31.5	Max	0.8	+/-0.05
FH	Low Profile	27.5	+/-0.4			21.0	Max	12.5	Max	31.5	Max	0.8	+/-0.05
FQ	Low Profile	27.5	+/-0.4			27.5	Max	16.0	Max	31.5	Max	0.8	+/-0.05
FT	Low Profile	27.5	+/-0.4			31.0	Max	19.0	Max	31.5	Max	0.8	+/-0.05
RB		37.5	+/-0.4			11.0	Max	22.0	Max	41.0	Max	1	+/-0.05
RF		37.5	+/-0.4			13.0	Max	24.0	Max	41.0	Max	1	+/-0.05
RH		37.5	+/-0.4			15.0	Max	26.0	Max	41.0	Max	1	+/-0.05
RC		37.5	+/-0.4			16.0	Max	28.5	Max	41.0	Max	1	+/-0.05
RD		37.5	+/-0.4			19.0	Max	32.0	Max	41.0	Max	1	+/-0.05
RP		37.5	+/-0.4			21.0	Max	38.0	Max	41.0	Max	1	+/-0.05
RO		37.5	+/-0.4			24.0	Max	44.0	Max	41.0	Max	1	+/-0.05
RU		37.5	+/-0.4			30.0	Max	45.0	Max	41.0	Max	1	+/-0.05
RV	Low Profile	37.5	+/-0.4			24.0	Max	15.0	Max	41.0	Max	1	+/-0.05
RW	Low Profile	37.5	+/-0.4			24.0	Max	19.0	Max	41.0	Max	1	+/-0.05
GD		52.5	+/-0.4	20.3	+/-0.4	30.0	Max	45.0	Max	57.5	Max	1	+/-0.05
GE		52.5	+/-0.4	20.3	+/-0.4	35.0	Max	50.0	Max	57.5	Max	1	+/-0.05

Note: See Ordering Options Table for lead length (LL) options.

Performance Characteristics

Rated Voltage	310 VAC 50/60 Hz		
Capacitance Range	0.001 – 45 μ F		
Capacitance Tolerance	$\pm 20\%$, $\pm 10\%$, $\pm 5\%$ on request		
Temperature Range	-40°C to $+110^{\circ}\text{C}$		
Climatic Category	40/110/56		
Approvals	ENEC, UL, cUL, CQC (pending)		
Dissipation Factor	Maximum Values at $+23^{\circ}\text{C}$		
		$C \leq 0.1 \mu\text{F}$	$C > 0.1 \mu\text{F}$
	1 kHz	0.3%	0.2%
Test Voltage Between Terminals	The 100% screening factory test is carried out at 1,900 VDC. The voltage level is selected to meet the requirements in applicable equipment standards. All electrical characteristics are checked after the test. It is not permitted to repeat this test as there is a risk to damage the capacitor. KEMET is not liable in such case for any failures.		
Insulation Resistance	Between Terminals:		
	$C \leq 0.33 \mu\text{F}$	$\geq 30,000 \text{ M}\Omega$	
	$C > 0.33 \mu\text{F}$	$\geq 10,000 \text{ M}\Omega \cdot \mu\text{F}$	

Impedance Graph



Environmental Test Data

Test	IEC Publication	Procedure
Endurance	IEC 60384-14	1.25 x V_R VAC 50 Hz, once every hour increase to 1,000 VAC for 0.1 second, 1,000 hours at upper rated temperature
Vibration	IEC 60068-2-6 Test Fc	3 directions at 2 hours each 10 – 55 Hz at 0.75 mm or 98 m/s ²
Bump	IEC 60068-2-29 Test Eb	1,000 bumps at 390 m/s ²
Change of Temperature	IEC 60068-2-14 Test Na	Upper and lower rated temperature 5 cycles
Active Flammability	IEC 60384-14	V_R + 20 surge pulses at 2.5 kV (pulse every 5 seconds)
Passive Flammability	IEC 60384-14	IEC 60384-1, IEC 60695-11-5 Needle-flame test
Damp Heat Steady State	IEC 60068-2-78 Test Cab	+40°C and 93% RH, 56 days

Approvals

Mark	Specification	File Number
	EN/IEC 60384-14	In progress
	UL 60384-14 and CAN/CSA-E60384-14	In progress
	GB/T 14472	Pending

Environmental Compliance

All new KEMET EMI capacitors are RoHS Compliant and Halogen Free.



Table 1 – Ratings & Part Number Reference

Cap Value (μ F)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/ μ s)	Part Number
		B	H	L			
0.001	KF	3	8	10	7.5	500	F861KF102(1)310(2)
0.0012	KF	3	8	10	7.5	500	F861KF122(1)310(2)
0.0015	KF	3	8	10	7.5	500	F861KF152(1)310(2)
0.0018	KF	3	8	10	7.5	500	F861KF182(1)310(2)
0.0022	KF	3	8	10	7.5	500	F861KF222(1)310(2)
0.0025	KF	3	8	10	7.5	500	F861KF252(1)310(2)
0.0027	KF	3	8	10	7.5	500	F861KF272(1)310(2)
0.0033	KF	3	8	10	7.5	500	F861KF332(1)310(2)
0.0039	KF	3	8	10	7.5	500	F861KF392(1)310(2)
0.0047	KF	3	8	10	7.5	500	F861KF472(1)310(2)
0.0056	KF	3	8	10	7.5	500	F861KF562(1)310(2)
0.0068	KF	3	8	10	7.5	500	F861KF682(1)310(2)
0.0082	KF	3	8	10	7.5	500	F861KF822(1)310(2)
0.01	KG	4	8	10	7.5	500	F861KG103(1)310(2)
0.012	KG	4	8	10	7.5	500	F861KG123(1)310(2)
0.015	KH	4	9	10	7.5	500	F861KH153(3)310(2)
0.018	KJ	5	10.5	10	7.5	500	F861KJ183(1)310(2)
0.022	KJ	5	10.5	10	7.5	500	F861KJ223(1)310(2)
0.025	KJ	5	10.5	10	7.5	500	F861KJ253(1)310(2)
0.027	KJ	5	10.5	10	7.5	500	F861KJ273(1)310(2)
0.033	KJ	5	10.5	10	7.5	500	F861KJ333(3)310(2)
0.033	KM	6	12	10.5	7.5	500	F861KM333(1)310(2)
0.039	KM	6	12	10.5	7.5	500	F861KM393(1)310(2)
0.047	KM	6	12	10.5	7.5	500	F861KM473(3)310(2)
0.001	AE	4	8	13	10	500	F861AE102(1)310(2)
0.0012	AE	4	8	13	10	500	F861AE122(1)310(2)
0.0015	AE	4	8	13	10	500	F861AE152(1)310(2)
0.0018	AE	4	8	13	10	500	F861AE182(1)310(2)
0.0018	AL	9.5	7.5	13	10	500	F861AL182(1)310(2)
0.0022	AE	4	8	13	10	500	F861AE222(1)310(2)
0.0022	AL	9.5	7.5	13	10	500	F861AL222(1)310(2)
0.0025	AE	4	8	13	10	500	F861AE252(1)310(2)
0.0025	AL	9.5	7.5	13	10	500	F861AL252(1)310(2)
0.0027	AE	4	8	13	10	500	F861AE272(1)310(2)
0.0027	AL	9.5	7.5	13	10	500	F861AL272(1)310(2)
0.0033	AE	4	8	13	10	500	F861AE332(1)310(2)
0.0033	AL	9.5	7.5	13	10	500	F861AL332(1)310(2)
0.0039	AE	4	8	13	10	500	F861AE392(1)310(2)
0.0039	AL	9.5	7.5	13	10	500	F861AL392(1)310(2)
0.0047	AE	4	8	13	10	500	F861AE472(1)310(2)
0.0047	AL	9.5	7.5	13	10	500	F861AL472(1)310(2)
0.0056	AE	4	8	13	10	500	F861AE562(1)310(2)
0.0056	AL	9.5	7.5	13	10	500	F861AL562(1)310(2)
0.0068	AE	4	8	13	10	500	F861AE682(1)310(2)
0.0068	AE	4	8	13	10	500	F861AE682(1)310(2)
0.0068	AL	9.5	7.5	13	10	500	F861AL682(1)310(2)
0.0082	AE	4	8	13	10	500	F861AE822(1)310(2)
0.0082	AL	9.5	7.5	13	10	500	F861AL822(1)310(2)
0.01	AE	4	8	13	10	500	F861AE103(1)310(2)
0.01	AL	9.5	7.5	13	10	500	F861AL103(1)310(2)
0.012	AE	4	8	13	10	500	F861AE123(1)310(2)
0.015	AE	4	8	13	10	500	F861AE153(1)310(2)
0.015	AL	9.5	7.5	13	10	500	F861AL153(1)310(2)
0.018	AE	4	8	13	10	500	F861AE183(1)310(2)
0.018	AL	9.5	7.5	13	10	500	F861AL183(1)310(2)
0.022	AE	4	8	13	10	500	F861AE223(1)310(2)
0.022	AL	9.5	7.5	13	10	500	F861AL223(1)310(2)
0.025	AE	4	8	13	10	500	F861AE253(1)310(2)
0.025	AL	9.5	7.5	13	10	500	F861AL253(1)310(2)
Cap Value (μ F)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/ μ s)	Part Number

(1) $M = \pm 20\%$, $K = \pm 10\%$, $J = \pm 5\%$ on request.

(2) Insert lead and packaging code. See table for available options.

(3) $M = \pm 20\%$ (only available tolerance).

Table 1 – Ratings & Part Number Reference cont'd

Cap Value (μ F)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/ μ s)	Part Number
		B	H	L			
0.027	AE	4	8	13	10	500	F861AE273(1)310(2)
0.027	AL	9.5	7.5	13	10	500	F861AL273(1)310(2)
0.033	AE	4	8	13	10	500	F861AE333(1)310(2)
0.033	AL	9.5	7.5	13	10	500	F861AL333(1)310(2)
0.039	AE	4	8	13	10	500	F861AE393(1)310(2)
0.039	AL	9.5	7.5	13	10	500	F861AL393(1)310(2)
0.047	AE	4	8	13	10	500	F861AE473(3)310(2)
0.047	AL	9.5	7.5	13	10	500	F861AL473(1)310(2)
0.056	AG	4	9	13	10	500	F861AG563(1)310(2)
0.056	AL	9.5	7.5	13	10	500	F861AL563(1)310(2)
0.068	AK	5	11	13	10	500	F861AK683(1)310(2)
0.068	AL	9.5	7.5	13	10	500	F861AL683(1)310(2)
0.082	AK	5	11	13	10	500	F861AK823(1)310(2)
0.082	AL	9.5	7.5	13	10	500	F861AL823(1)310(2)
0.1	AK	5	11	13	10	500	F861AK104(3)310(2)
0.1	AL	9.5	7.5	13	10	500	F861AL104(1)310(2)
0.1	AP	6	12	13	10	500	F861AP104(1)310(2)
0.12	AL	9.5	7.5	13	10	500	F861AL124(1)310(2)
0.12	AP	6	12	13	10	500	F861AP124(1)310(2)
0.15	AO	7	17	13	10	500	F861AO154(1)310(2)
0.15	AP	6	12	13	10	500	F861AP154(3)310(2)
0.18	AO	7	17	13	10	500	F861AO184(1)310(2)
0.22	AO	7	17	13	10	500	F861AO224(1)310(2)
0.25	AO	7	17	13	10	500	F861AO254(1)310(2)
0.27	AO	7	17	13	10	500	F861AO274(1)310(2)
0.0027	BB	4	10	18	15	400	F861BB272(1)310(2)
0.0033	BB	4	10	18	15	400	F861BB332(1)310(2)
0.0039	BB	4	10	18	15	400	F861BB392(1)310(2)
0.0047	BB	4	10	18	15	400	F861BB472(1)310(2)
0.0056	BB	4	10	18	15	400	F861BB562(1)310(2)
0.0068	BB	4	10	18	15	400	F861BB682(1)310(2)
0.0082	BB	4	10	18	15	400	F861BB822(1)310(2)
0.01	BB	4	10	18	15	400	F861BB103(1)310(2)
0.012	BB	4	10	18	15	400	F861BB123(1)310(2)
0.015	BB	4	10	18	15	400	F861BB153(1)310(2)
0.018	BB	4	10	18	15	400	F861BB183(1)310(2)
0.022	BB	4	10	18	15	400	F861BB223(1)310(2)
0.025	BB	4	10	18	15	400	F861BB253(1)310(2)
0.027	BB	4	10	18	15	400	F861BB273(1)310(2)
0.033	BB	4	10	18	15	400	F861BB333(1)310(2)
0.039	BB	4	10	18	15	400	F861BB393(1)310(2)
0.047	BB	4	10	18	15	400	F861BB473(1)310(2)
0.056	BB	4	10	18	15	400	F861BB563(1)310(2)
0.068	BB	4	10	18	15	400	F861BB683(1)310(2)
0.082	BB	4	10	18	15	400	F861BB823(1)310(2)
0.1	BB	4	10	18	15	400	F861BB104(1)310(2)
0.12	BB	4	10	18	15	400	F861BB124(3)310(2)
0.12	BC	5	11	18	15	400	F861BC124(1)310(2)
0.15	BC	5	11	18	15	400	F861BC154(1)310(2)
0.15	BT	9	12.5	18	15	400	F861BT154(1)310(2)
0.18	BC	5	11	18	15	400	F861BC184(3)310(2)
0.18	BE	5.5	12.5	18	15	400	F861BE184(1)310(2)
0.18	BT	9	12.5	18	15	400	F861BT184(1)310(2)
0.22	BE	5.5	12.5	18	15	400	F861BE224(1)310(2)
0.22	BG	6	12	18	15	400	F861BG224(1)310(2)
0.22	BT	9	12.5	18	15	400	F861BT224(1)310(2)
0.25	BG	6	12	18	15	400	F861BG254(1)310(2)
0.25	BT	9	12.5	18	15	400	F861BT254(1)310(2)
0.27	BG	6	12	18	15	400	F861BG274(3)310(2)
Cap Value (μ F)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/ μ s)	Part Number

(1) $M = \pm 20\%$, $K = \pm 10\%$, $J = \pm 5\%$ on request.

(2) Insert lead and packaging code. See table for available options.

(3) $M = \pm 20\%$ (only available tolerance).

Table 1 – Ratings & Part Number Reference cont'd

Cap Value (μ F)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/ μ s)	Part Number
		B	H	L			
0.27	BI	6	17.5	18	15	400	F861BI274(1)310(2)
0.27	BK	7.5	13.5	18	15	400	F861BK274(1)310(2)
0.27	BR	13	12	18	15	400	F861BR274(1)310(2)
0.27	BT	9	12.5	18	15	400	F861BT274(1)310(2)
0.33	BI	6	17.5	18	15	400	F861BI334(1)310(2)
0.33	BK	7.5	13.5	18	15	400	F861BK334(1)310(2)
0.33	BR	13	12	18	15	400	F861BR334(1)310(2)
0.33	BT	9	12.5	18	15	400	F861BT334(1)310(2)
0.39	BI	6	17.5	18	15	400	F861BI394(1)310(2)
0.39	BK	7.5	13.5	18	15	400	F861BK394(3)310(2)
0.39	BP	8.5	14.5	18	15	400	F861BP394(1)310(2)
0.39	BR	13	12	18	15	400	F861BR394(1)310(2)
0.39	BT	9	12.5	18	15	400	F861BT394(1)310(2)
0.47	BO	7.5	18.5	18	15	400	F861BO474(1)310(2)
0.47	BP	8.5	14.5	18	15	400	F861BP474(1)310(2)
0.47	BR	13	12	18	15	400	F861BR474(1)310(2)
0.56	BO	7.5	18.5	18	15	400	F861BO564(1)310(2)
0.56	BR	13	12	18	15	400	F861BR564(1)310(2)
0.56	BS	10	16	18	15	400	F861BS564(1)310(2)
0.68	BR	13	12	18	15	400	F861BR684(3)310(2)
0.68	BS	10	16	18	15	400	F861BS684(1)310(2)
0.82	BY	11	19	18	15	400	F861BY824(1)310(2)
1	BZ	12	20	18	15	400	F861BZ105(3)310(2)
0.039	DB	6	14.5	26	22.5	200	F861DB393(1)310(2)
0.047	DB	6	14.5	26	22.5	200	F861DB473(1)310(2)
0.056	DB	6	14.5	26	22.5	200	F861DB563(1)310(2)
0.068	DB	6	14.5	26	22.5	200	F861DB683(1)310(2)
0.082	DB	6	14.5	26	22.5	200	F861DB823(1)310(2)
0.1	DB	6	14.5	26	22.5	200	F861DB104(1)310(2)
0.12	DB	6	14.5	26	22.5	200	F861DB124(1)310(2)
0.15	DB	6	14.5	26	22.5	200	F861DB154(1)310(2)
0.18	DB	6	14.5	26	22.5	200	F861DB184(1)310(2)
0.22	DB	6	14.5	26	22.5	200	F861DB224(1)310(2)
0.25	DB	6	14.5	26	22.5	200	F861DB254(1)310(2)
0.27	DB	6	14.5	26	22.5	200	F861DB274(1)310(2)
0.33	DB	6	14.5	26	22.5	200	F861DB334(1)310(2)
0.39	DB	6	14.5	26	22.5	200	F861DB394(1)310(2)
0.47	DB	6	14.5	26	22.5	200	F861DB474(3)310(2)
0.47	DI	7	16	26	22.5	200	F861DI474(1)310(2)
0.56	DI	7	16	26	22.5	200	F861DI564(1)310(2)
0.68	DI	7	16	26	22.5	200	F861DI684(1)310(2)
0.82	DH	8	16	26	22.5	200	F861DH824(1)310(2)
1	DJ	8.5	17	26	22.5	200	F861DJ105(3)310(2)
1.2	DM	9	18.5	26	22.5	200	F861DM125(3)310(2)
1.2	DO	10	18.5	26	22.5	200	F861DO125(1)310(2)
1.5	DP	11	20	26	22.5	200	F861DP155(1)310(2)
1.8	DP	11	20	26	22.5	200	F861DP185(3)310(2)
1.8	DU	13	22	26	22.5	200	F861DU185(1)310(2)
2.2	DU	13	22	26	22.5	200	F861DU225(1)310(2)
2.5	DU	13	22	26	22.5	200	F861DU255(3)310(2)
2.5	DY	15.5	24.5	26	22.5	200	F861DY255(1)310(2)
2.7	DY	15.5	24.5	26	22.5	200	F861DY275(1)310(2)
3.3	DY	15.5	24.5	26	22.5	200	F861DY335(3)310(2)
0.15	FB	9	17	31.5	27.5	150	F861FB154(1)310(2)
0.18	FB	9	17	31.5	27.5	150	F861FB184(1)310(2)
0.22	FB	9	17	31.5	27.5	150	F861FB224(1)310(2)
0.25	FB	9	17	31.5	27.5	150	F861FB254(1)310(2)
0.25	FH	21	12.5	31.5	27.5	150	F861FH254(1)310(2)
0.27	FB	9	17	31.5	27.5	150	F861FB274(1)310(2)
Cap Value (μ F)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/ μ s)	Part Number

(1) $M = \pm 20\%$, $K = \pm 10\%$, $J = \pm 5\%$ on request.

(2) Insert lead and packaging code. See table for available options.

(3) $M = \pm 20\%$ (only available tolerance).

Table 1 – Ratings & Part Number Reference cont'd

Cap Value (μ F)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/ μ s)	Part Number
		B	H	L			
0.27	FH	21	12.5	31.5	27.5	150	F861FH274(1)310(2)
0.33	FB	9	17	31.5	27.5	150	F861FB334(1)310(2)
0.33	FH	21	12.5	31.5	27.5	150	F861FH334(1)310(2)
0.39	FB	9	17	31.5	27.5	150	F861FB394(1)310(2)
0.39	FH	21	12.5	31.5	27.5	150	F861FH394(1)310(2)
0.47	FB	9	17	31.5	27.5	150	F861FB474(1)310(2)
0.47	FH	21	12.5	31.5	27.5	150	F861FH474(1)310(2)
0.56	FB	9	17	31.5	27.5	150	F861FB564(1)310(2)
0.56	FH	21	12.5	31.5	27.5	150	F861FH564(1)310(2)
0.68	FB	9	17	31.5	27.5	150	F861FB684(1)310(2)
0.68	FH	21	12.5	31.5	27.5	150	F861FH684(1)310(2)
0.82	FB	9	17	31.5	27.5	150	F861FB824(1)310(2)
0.82	FH	21	12.5	31.5	27.5	150	F861FH824(1)310(2)
1	FB	9	17	31.5	27.5	150	F861FB105(1)310(2)
1	FH	21	12.5	31.5	27.5	150	F861FH105(1)310(2)
1.2	FB	9	17	31.5	27.5	150	F861FB125(3)310(2)
1.2	FC	11	20	31.5	27.5	150	F861FC125(1)310(2)
1.2	FH	21	12.5	31.5	27.5	150	F861FH125(1)310(2)
1.5	FC	11	20	31.5	27.5	150	F861FC155(1)310(2)
1.5	FH	21	12.5	31.5	27.5	150	F861FH155(1)310(2)
1.8	FC	11	20	31.5	27.5	150	F861FC185(3)310(2)
1.8	FH	21	12.5	31.5	27.5	150	F861FH185(1)310(2)
2.2	FH	21	12.5	31.5	27.5	150	F861FH225(3)310(2)
2.2	FI	13	25	31.5	27.5	150	F861FI225(1)310(2)
2.5	FI	13	25	31.5	27.5	150	F861FI255(1)310(2)
2.5	FQ	27.5	16	31.5	27.5	150	F861FQ255(1)310(2)
2.7	FI	13	25	31.5	27.5	150	F861FI275(1)310(2)
2.7	FQ	27.5	16	31.5	27.5	150	F861FQ275(1)310(2)
3.3	FI	13	25	31.5	27.5	150	F861FI335(3)310(2)
3.3	FN	14	28	31.5	27.5	150	F861FN335(1)310(2)
3.3	FO	17	40	31.5	27.5	150	F861FO335(1)310(2)
3.3	FQ	27.5	16	31.5	27.5	150	F861FQ335(1)310(2)
3.9	FO	17	40	31.5	27.5	150	F861FO395(1)310(2)
3.9	FQ	27.5	16	31.5	27.5	150	F861FQ395(3)310(2)
3.9	FR	17.5	28	31.5	27.5	150	F861FR395(1)310(2)
3.9	FT	31	19	31.5	27.5	150	F861FT395(1)310(2)
4.7	FO	17	40	31.5	27.5	150	F861FO475(1)310(2)
4.7	FR	17.5	28	31.5	27.5	150	F861FR475(1)310(2)
4.7	FT	31	19	31.5	27.5	150	F861FT475(1)310(2)
5.6	FO	17	40	31.5	27.5	150	F861FO565(1)310(2)
5.6	FS	19	29	31.5	27.5	150	F861FS565(3)310(2)
5.6	FT	31	19	31.5	27.5	150	F861FT565(3)310(2)
6.8	FO	17	40	31.5	27.5	150	F861FO685(3)310(2)
6.8	FY	22	37	31.5	27.5	150	F861FY685(1)310(2)
8.2	FY	22	37	31.5	27.5	150	F861FY825(1)310(2)
0.33	RB	11	22	41	37.5	100	F861RB334(1)310(2)
0.39	RB	11	22	41	37.5	100	F861RB394(1)310(2)
0.47	RB	11	22	41	37.5	100	F861RB474(1)310(2)
0.56	RB	11	22	41	37.5	100	F861RB564(1)310(2)
0.56	RV	24	15	41	37.5	100	F861RV564(1)310(2)
0.68	RB	11	22	41	37.5	100	F861RB684(1)310(2)
0.68	RV	24	15	41	37.5	100	F861RV684(1)310(2)
0.82	RB	11	22	41	37.5	100	F861RB824(1)310(2)
0.82	RV	24	15	41	37.5	100	F861RV824(1)310(2)
1	RB	11	22	41	37.5	100	F861RB105(1)310(2)
1	RV	24	15	41	37.5	100	F861RV105(1)310(2)
1.2	RB	11	22	41	37.5	100	F861RB125(1)310(2)
1.2	RV	24	15	41	37.5	100	F861RV125(1)310(2)
1.5	RB	11	22	41	37.5	100	F861RB155(1)310(2)
Cap Value (μ F)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/ μ s)	Part Number

(1) $M = \pm 20\%$, $K = \pm 10\%$, $J = \pm 5\%$ on request.

(2) Insert lead and packaging code. See table for available options.

(3) $M = \pm 20\%$ (only available tolerance).

Table 1 – Ratings & Part Number Reference cont'd

Cap Value (μ F)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/ μ s)	Part Number
		B	H	L			
1.5	RV	24	15	41	37.5	100	F861RV155(1)310(2)
1.8	RB	11	22	41	37.5	100	F861RB185(1)310(2)
1.8	RV	24	15	41	37.5	100	F861RV185(1)310(2)
2.2	RB	11	22	41	37.5	100	F861RB225(1)310(2)
2.2	RV	24	15	41	37.5	100	F861RV225(1)310(2)
2.5	RB	11	22	41	37.5	100	F861RB255(1)310(2)
2.5	RV	24	15	41	37.5	100	F861RV255(1)310(2)
2.7	RB	11	22	41	37.5	100	F861RB275(1)310(2)
2.7	RV	24	15	41	37.5	100	F861RV275(1)310(2)
3.3	RB	11	22	41	37.5	100	F861RB335(3)310(2)
3.3	RF	13	24	41	37.5	100	F861RF335(1)310(2)
3.3	RV	24	15	41	37.5	100	F861RV335(1)310(2)
3.9	RF	13	24	41	37.5	100	F861RF395(1)310(2)
3.9	RV	24	15	41	37.5	100	F861RV395(1)310(2)
4.7	RF	13	24	41	37.5	100	F861RF475(3)310(2)
4.7	RH	15	26	41	37.5	100	F861RH475(1)310(2)
4.7	RV	24	15	41	37.5	100	F861RV475(3)310(2)
4.7	RW	24	19	41	37.5	100	F861RW475(1)310(2)
5.6	RH	15	26	41	37.5	100	F861RH565(1)310(2)
5.6	RW	24	19	41	37.5	100	F861RW565(1)310(2)
6.8	RC	16	28.5	41	37.5	100	F861RC685(3)310(2)
6.8	RD	19	32	41	37.5	100	F861RD685(1)310(2)
6.8	RW	24	19	41	37.5	100	F861RW685(3)310(2)
8.2	RD	19	32	41	37.5	100	F861RD825(1)310(2)
10	RP	21	38	41	37.5	100	F861RP106(1)310(2)
12	RO	24	44	41	37.5	100	F861RO126(1)310(2)
12	RP	21	38	41	37.5	100	F861RP126(3)310(2)
15	RO	24	44	41	37.5	100	F861RO156(1)310(2)
18	RU	30	45	41	37.5	100	F861RU186(1)310(2)
22	RU	30	45	41	37.5	100	F861RU226(1)310(2)
3.9	GD	30	45	57.5	52.5	100	F861GD395(1)310(2)
4.7	GD	30	45	57.5	52.5	100	F861GD475(1)310(2)
5.6	GD	30	45	57.5	52.5	100	F861GD565(1)310(2)
6.8	GD	30	45	57.5	52.5	100	F861GD685(1)310(2)
8.2	GD	30	45	57.5	52.5	100	F861GD825(1)310(2)
10	GD	30	45	57.5	52.5	100	F861GD106(1)310(2)
12	GD	30	45	57.5	52.5	100	F861GD126(1)310(2)
15	GD	30	45	57.5	52.5	100	F861GD156(1)310(2)
18	GD	30	45	57.5	52.5	100	F861GD186(1)310(2)
22	GD	30	45	57.5	52.5	100	F861GD226(1)310(2)
25	GD	30	45	57.5	52.5	100	F861GD256(1)310(2)
27	GD	30	45	57.5	52.5	100	F861GD276(1)310(2)
33	GD	30	45	57.5	52.5	100	F861GD336(3)310(2)
39	GE	35	50	57.5	52.5	100	F861GE396(1)310(2)
45	GE	35	50	57.5	52.5	100	F861GE456(3)310(2)
Cap Value (μ F)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/ μ s)	Part Number

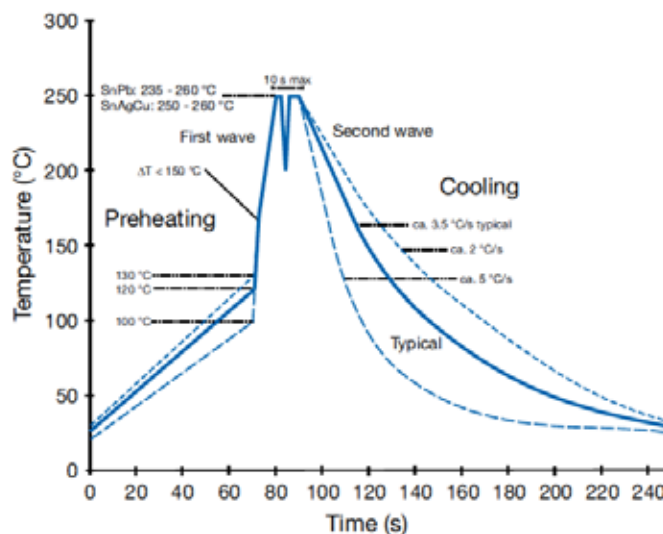
(1) $M = \pm 20\%$, $K = \pm 10\%$, $J = \pm 5\%$ on request.

(2) Insert lead and packaging code. See table for available options.

(3) $M = \pm 20\%$ (only available tolerance).

Soldering Process

The implementation of the RoHS Directive has required the use of SnAuCu (SAC) or SnCu alloys as primary solder. These alloys require a higher liquidus temperature (217°C – 221°C) as compared to SnPb eutectic alloy (183°C). Due to the higher pre-heat and wave temperatures, the heat stress to components has increased considerably. Polypropylene capacitors are especially sensitive to soldering temperature due to the relatively low melting point of polypropylene material (160°C – 170°C). As a result, wave soldering can be destructive, especially to mechanically small polypropylene capacitors with lead spacings of 5 – 10 mm. For more information, please refer to KEMET's Recommended Soldering Profiles or contact a KEMET representative. IEC Publication 61760–1 Edition 2 may also be consulted for general guidelines.



Marking

- KEMET or KEC
- Series
- Capacitance
- Capacitance tolerance
- Rated voltage
- X2
- Approval marks
- Manufacturing date code
- IEC climatic category
- Passive flammability class

Lateral Marking	Top Marking

Packaging Quantities

Size Code	Lead Spacing	Thickness (mm)	Height (mm)	Length (mm)	Bulk Short Leads	Bulk Long Leads	Standard Reel ø 355 mm	Large Reel ø 500 mm	Ammo	Pizza
KE	7.5	2.5	6	10	2000	3000	2500		3500	
KF		3	8	10	1500	1750	2100		2800	
KG		4	8	10	2000	1500	1500		2100	
KJ		5	10.5	10	1500	1000	1200		1600	
KM		6	12	10.5	1000	800	1000		1350	
KH		4	9	10	2000	1500	1500		2100	
AN	10	3.5	9	13	2200	3200	850	1700	1150	
AG		4	9	13	2000	2200	750	1500	1000	
AK		5	11	13	1300	2000	600	1250	800	
AP		6	12	13	1000	1800	500	1000	680	
AO		7	17	13	600	900	450	900	580	
AL		9.5	7.5	13	1100	2000	300	600	430	
AE		4	8	13	2000	2200	750	1500	1000	
BB	15	4	10	18	1300	1500	750	1500	1000	1411
BC		5	11	18	1000	1250	600	1250	800	1139
BE		5.5	12.5	18	800	1100	550	1100	750	1020
BG		6	12	18	1750	1000	500	1000	680	935
BK		7.5	13.5	18	1000	800	350	800	500	748
BI		6	17.5	18	1000	800	500	1000	680	935
BP		8.5	14.5	18	1000	650	300	700	440	663
BT		9	12.5	18	1000	700	270	650	410	629
BO		7.5	18.5	18	900	600	350	800	500	748
BS		10	16	18	750	550	300	600	380	561
BR		13	12	18	750	520	200	480	280	425
BY		11	19	18	450	400	250	500	340	510
BA		8.5	12.5	18	1000	650	300	700	440	663
BZ		12	20	18	350	300	220	450	330	459
DB	22.5	6	14.5	26	1638	702	300	700	464	660
DI		7	16	26	1188	594	250	550	380	564
DH		8.0	16.0	26	1026	513	240	500	330	492
DJ		8.5	17	26	972	486	250	450	280	468
DM		9	18.5	26	918	459	200	400	300	444
DO		10	18.5	26	810	405	160	350	235	396
DP		11	20	26	756	378	190	350	217	360
DU		13	22	26	540	324	150	300	200	300
DY		15.5	24.5	26	450	270	120	250	170	252

Packaging Quantities cont'd

Size Code	Lead Spacing	Thickness (mm)	Height (mm)	Length (mm)	Bulk Short Leads	Bulk Long Leads	Standard Reel ø 355 mm	Large Reel ø 500 mm	Ammo	Pizza
FB	27.5	9.0	17.0	31.5	816	408				370
FC		11.0	20.0	31.5	672	336				300
FI		13.0	25.0	31.5	480	288				250
FN		14.0	28.0	31.5	352	176				230
FO		17.0	40.0	31.5	216	144				190
FR		17.5	28.0	31.5	256	128				190
FS		19.0	29.0	31.5	256	128				170
FY		22.0	37.0	31.5	168	112				150
FH		21.0	12.5	31.5	392	168				150
FQ		27.5	16.0	31.5	280	120				120
FT		31.0	19.0	31.5	240	120				100
RB	37.5	11.0	22.0	41.0	420	252				210
RF		13.0	24.0	41.0	360	216				175
RH		15.0	26.0	41.0	300	180				154
RC		16.0	28.5	41.0	216	108				140
RD		19.0	32.0	41.0	192	96				119
RP		21.0	38.0	41.0	126	84				105
RO		24.0	44.0	41.0	108	72				91
RU		30.0	45.0	41.0	90	60				77
RV		24.0	15.0	41.0	252	108				91
RW		24.0	19.0	41.0	216	108				91
GD	52.5	30	45	57.5						55
GE		35	50	57.5						45

F881 Series Metallized Polypropylene Film, Class Y2, 300 VAC



Overview

Metallized polypropylene film encapsulated with self-extinguishing resin in a box of material recognized to UL 94 V-0.

Applications

For worldwide use as electromagnetic interference suppressor in all Y2 applications (line to earth).

Benefits

- Approvals: ENEC, UL, cUL, CQC
- Rated voltage: 300 VAC 50/60 Hz
- Capacitance range: 0.01 – 1.0 μ F
- Lead spacing 22.5 - 37.5 mm
- Capacitance tolerance: $\pm 20\%$, $\pm 10\%$, $\pm 5\%$ on request
- Climatic category 40/110/56, IEC 60068-1
- Tape and reel in accordance with IEC 60286-2
- RoHS Compliant and lead-free terminations
- Operating temperature range of -40°C to $+110^{\circ}\text{C}$
- 100% screening factory test at 4,000 VDC and 2,500 VAC



Part Number System

F	881	B	C	103	M	300	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Voltage (VAC)	Lead and Packaging Code
F = Film	Y2, Metallized Polypropylene	K = 7.5 A = 10 B = 15 D = 22.5 F = 27.5 R = 37.5	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	300	See Ordering Options Table

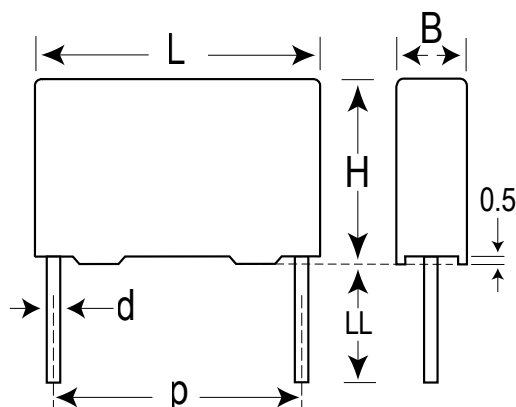
Ordering Options Table

Lead Spacing Nominal (mm)	Type of Leads and Packaging	Lead Length (mm)	Lead and Packaging Code
7.5	Standard Lead and Packaging Options		
	Bulk (Bag) – Short Leads	4 $\pm 2/-0$	C
	Bulk (Bag) – Long Leads	17 $\pm 0/-1$	A
	Tape & Reel (Standard Reel)	H ₀ = 18.5 ± 0.5	L
	Other Lead and Packaging Options		
	Bulk (Bag) – Max Length Leads	20 $\pm 5/-0$	ALL0L
	Ammo Pack	H ₀ = 18.5 ± 0.5	R

Ordering Options Table cont'd

Lead Spacing Nominal (mm)	Type of Leads and Packaging	Lead Length (mm)	Lead and Packaging Code
10	Standard Lead and Packaging Options		
	Bulk (Bag) – Short Leads	4 +2/-0	C
	Bulk (Bag) – Long Leads	17 +0/-1	A
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Other Lead and Packaging Options		
	Bulk (Bag) – Max Length Leads	20 +5/-0	ALL0L
	Ammo Pack	H ₀ = 18.5 +/-0.5	R
	Tape & Reel (Large Reel)	H ₀ = 18.5 +/-0.5	P
15	Standard Lead and Packaging Options		
	Bulk (Bag) – Short Leads	4 +2/-0	C
	Bulk (Bag) – Long Leads	17 +0/-1	A
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Pizza Pack	4 +2/-0	Z
	Other Lead and Packaging Options		
	Bulk (Bag) – Max Length Leads	25 +5/-0	ALR0L
	Ammo Pack	H ₀ = 18.5 +/-0.5	R
	Tape & Reel (Large Reel)	H ₀ = 18.5 +/-0.5	P
22.5	Standard Lead and Packaging Options		
	Bulk (Tray) – Short Leads	4 +2/-0	C
	Bulk (Tray) – Long Leads	17 +0/-1	A
	Pizza Pack	4 +2/-0	Z
	Other Lead and Packaging Options		
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Tape & Reel (Large Reel)	H ₀ = 18.5 +/-0.5	P
	Ammo Pack	H ₀ = 18.5 +/-0.5	R
27.5	Standard Lead and Packaging Options		
	Bulk (Tray) – Short Leads	4 +2/-0	C
	Bulk (Tray) – Long Leads	17 +0/-1	A
	Pizza Pack	4 +2/-0	Z
37.5	Standard Lead and Packaging Options		
	Bulk (Tray) – Short Leads	4 +2/-0	C
	Bulk (Tray) – Long Leads	17 +0/-1	A
	Pizza Pack	4 +2/-0	Z

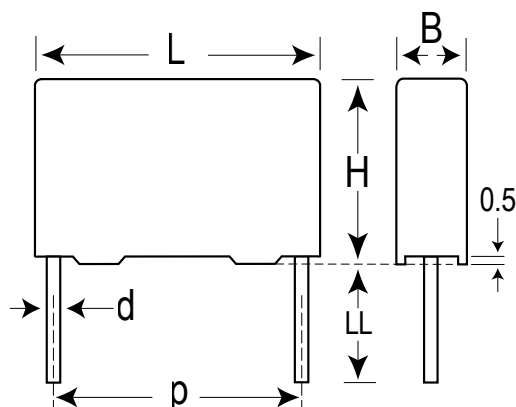
Dimensions – Millimeters



Size Code	Version	p		B		H		L		d	
		Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
KF		7.5	+/-0.4	3	Max	8	Max	10	Max	0.6	+/-0.05
KG		7.5	+/-0.4	4	Max	8	Max	10	Max	0.6	+/-0.05
KH		7.5	+/-0.4	4	Max	9	Max	10	Max	0.6	+/-0.05
KJ		7.5	+/-0.4	5	Max	10.5	Max	10	Max	0.6	+/-0.05
KM		7.5	+/-0.4	6	Max	12	Max	10.5	Max	0.6	+/-0.05
AG		10.0	+/-0.4	4.0	Max	9.0	Max	13.0	Max	0.6	+/-0.05
AK		10.0	+/-0.4	5.0	Max	11.0	Max	13.0	Max	0.6	+/-0.05
AP		10.0	+/-0.4	6.0	Max	12.0	Max	13.0	Max	0.6	+/-0.05
AO		10.0	+/-0.4	7.0	Max	17.0	Max	13.0	Max	0.6	+/-0.05
AL	Low Profile	10.0	+/-0.4	9.5	Max	7.5	Max	13.0	Max	0.6	+/-0.05
AE	Special Version	10.0	+/-0.4	4.0	Max	8.0	Max	13.0	Max	0.6	+/-0.05
BB		15.0	+/-0.4	4.0	Max	10.0	Max	18.0	Max	0.8	+/-0.05
BC		15.0	+/-0.4	5.0	Max	11.0	Max	18.0	Max	0.8	+/-0.05
BE		15.0	+/-0.4	5.5	Max	12.5	Max	18.0	Max	0.8	+/-0.05
BG		15.0	+/-0.4	6.0	Max	12.0	Max	18.0	Max	0.8	+/-0.05
BI	High Profile	15.0	+/-0.4	6.0	Max	17.5	Max	18.0	Max	0.8	+/-0.05
BK		15.0	+/-0.4	7.5	Max	13.5	Max	18.0	Max	0.8	+/-0.05
BO	High Profile	15.0	+/-0.4	7.5	Max	18.5	Max	18.0	Max	0.8	+/-0.05
BP		15.0	+/-0.4	8.5	Max	14.5	Max	18.0	Max	0.8	+/-0.05
BT		15.0	+/-0.4	9.0	Max	12.5	Max	18.0	Max	0.8	+/-0.05
BS		15.0	+/-0.4	10.0	Max	16.0	Max	18.0	Max	0.8	+/-0.05
BY		15.0	+/-0.4	11.0	Max	19.0	Max	18.0	Max	0.8	+/-0.05
BZ	Special Version	15.0	+/-0.4	12.0	Max	20.0	Max	18.0	Max	0.8	+/-0.05
BR	Low Profile	15.0	+/-0.4	13.0	Max	12.0	Max	18.0	Max	0.8	+/-0.05
DB		22.5	+/-0.4	6.0	Max	14.5	Max	26.0	Max	0.8	+/-0.05
DI		22.5	+/-0.4	7.0	Max	16.0	Max	26.0	Max	0.8	+/-0.05
DH		22.5	+/-0.4	8.0	Max	16.0	Max	26.0	Max	0.8	+/-0.05
DJ		22.5	+/-0.4	8.5	Max	17.0	Max	26.0	Max	0.8	+/-0.05
DM		22.5	+/-0.4	9.0	Max	18.5	Max	26.0	Max	0.8	+/-0.05
DO		22.5	+/-0.4	10.0	Max	18.5	Max	26.0	Max	0.8	+/-0.05

Note: See Ordering Options Table for lead length (LL) options.

Dimensions – Millimeters cont'd



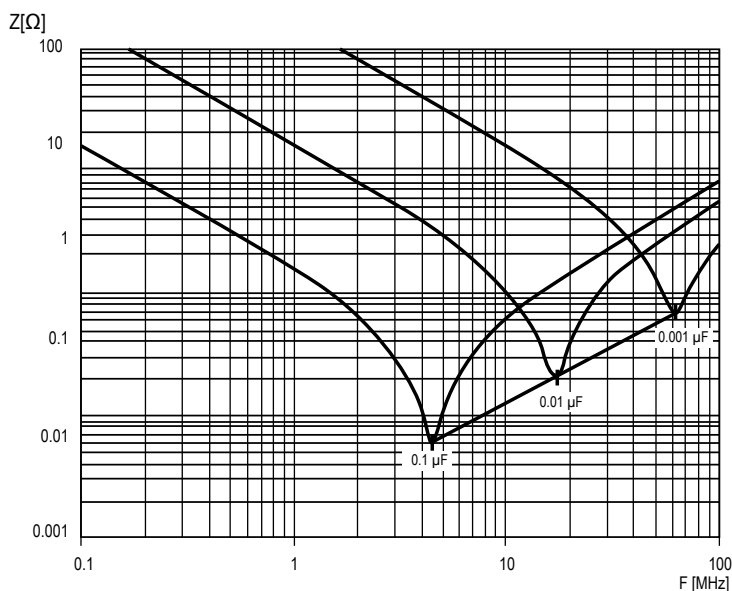
Size Code	Version	p		B		H		L		d	
		Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
DP		22.5	+/-0.4	11.0	Max	20.0	Max	26.0	Max	0.8	+/-0.05
DU		22.5	+/-0.4	13.0	Max	22.0	Max	26.0	Max	0.8	+/-0.05
DY		22.5	+/-0.4	15.5	Max	24.5	Max	26.0	Max	0.8	+/-0.05
FB		27.5	+/-0.4	9.0	Max	17.0	Max	31.5	Max	0.8	+/-0.05
FC		27.5	+/-0.4	11.0	Max	20.0	Max	31.5	Max	0.8	+/-0.05
FI		27.5	+/-0.4	13.0	Max	25.0	Max	31.5	Max	0.8	+/-0.05
FN		27.5	+/-0.4	14.0	Max	28.0	Max	31.5	Max	0.8	+/-0.05
FO	High Profile	27.5	+/-0.4	17.0	Max	40.0	Max	31.5	Max	0.8	+/-0.05
FR		27.5	+/-0.4	17.5	Max	28.0	Max	31.5	Max	0.8	+/-0.05
FS		27.5	+/-0.4	19.0	Max	29.0	Max	31.5	Max	0.8	+/-0.05
FY		27.5	+/-0.4	22.0	Max	37.0	Max	31.5	Max	0.8	+/-0.05
FH	Low Profile	27.5	+/-0.4	21.0	Max	12.5	Max	31.5	Max	0.8	+/-0.05
FQ	Low Profile	27.5	+/-0.4	27.5	Max	16.0	Max	31.5	Max	0.8	+/-0.05
FT	Low Profile	27.5	+/-0.4	31.0	Max	19.0	Max	31.5	Max	0.8	+/-0.05
RB		37.5	+/-0.4	11.0	Max	22.0	Max	41.0	Max	1	+/-0.05
RF		37.5	+/-0.4	13.0	Max	24.0	Max	41.0	Max	1	+/-0.05
RH		37.5	+/-0.4	15.0	Max	26.0	Max	41.0	Max	1	+/-0.05
RC		37.5	+/-0.4	16.0	Max	28.5	Max	41.0	Max	1	+/-0.05
RD		37.5	+/-0.4	19.0	Max	32.0	Max	41.0	Max	1	+/-0.05
RP		37.5	+/-0.4	21.0	Max	38.0	Max	41.0	Max	1	+/-0.05
RO		37.5	+/-0.4	24.0	Max	44.0	Max	41.0	Max	1	+/-0.05
RU		37.5	+/-0.4	30.0	Max	45.0	Max	41.0	Max	1	+/-0.05
RV	Low Profile	37.5	+/-0.4	24.0	Max	15.0	Max	41.0	Max	1	+/-0.05
RW	Low Profile	37.5	+/-0.4	24.0	Max	19.0	Max	41.0	Max	1	+/-0.05

Note: See Ordering Options Table for lead length (LL) options.

Performance Characteristics

Rated Voltage	300 VAC 50/60 Hz		
Capacitance Range	0.01 – 1.0 μF		
Capacitance Tolerance	$\pm 20\%$, $\pm 10\%$, $\pm 5\%$ on request		
Temperature Range	-40°C to $+110^{\circ}\text{C}$		
Climatic Category	40/110/56		
Approvals	ENEC, UL, cUL, CQC (pending)		
Dissipation Factor	Maximum Values at $+23^{\circ}\text{C}$		
		$C \leq 0.1 \mu\text{F}$	$C > 0.1 \mu\text{F}$
	1 kHz	0.3%	0.2%
Test Voltage Between Terminals	The 100% screening factory test is carried out at 4,000 VDC and 2,500 VAC. The voltage level is selected to meet the requirements in applicable equipment standards. All electrical characteristics are checked after the test. It is not permitted to repeat this test as there is a risk to damage the capacitor. KEMET is not liable in such case for any failures.		
Insulation Resistance	Between Terminals:		
	$C \leq 0.33 \mu\text{F}$	$\geq 30,000 \text{ M}\Omega$	
	$C > 0.33 \mu\text{F}$	$\geq 10,000 \text{ M}\Omega \cdot \mu\text{F}$	
In DC Applications	Recommended voltage $\leq 1,000 \text{ VDC}$		

Impedance Graph



Environmental Test Data

Test	IEC Publication	Procedure
Endurance	IEC 60384-14	$1.7 \times V_R$ VAC 50 Hz, once every hour increase to 1,000 VAC for 0.1 second, 1,000 hours at upper rated temperature
Vibration	IEC 60068-2-6 Test Fc	3 directions at 2 hours each 10 – 55 Hz at 0.75 mm or 98 m/s ²
Bump	IEC 60068-2-29 Test Eb	1,000 bumps at 390 m/s ²
Change of Temperature	IEC 60068-2-14 Test Na	Upper and lower rated temperature 5 cycles
Active Flammability	IEC 60384-14	$V_R + 20$ surge pulses at 5 kV (pulse every 5 seconds)
Passive Flammability	IEC 60384-14	IEC 60384-1, IEC 60695-11-5 Needle-flame test
Damp Heat Steady State	IEC 60068-2-78 Test Cab	+40°C and 93% RH, 56 days

Approvals

Mark	Specification	File Number
	EN/IEC 60384-14	In progress
	UL 60384-14 and CAN/CSA-E60384-14	In progress
	GB/T 14472	Pending

Environmental Compliance

All new KEMET EMI capacitors are RoHS Compliant and Halogen Free.



Table 1 – Ratings & Part Number Reference

Cap Value (μ F)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/ μ s)	Part Number
		B	H	L			
0.001	KF	3	8	10	7.5	800	F881KF102(1)300(2)
0.0012	KG	4	8	10	7.5	800	F881KG122(1)300(2)
0.0015	KG	4	8	10	7.5	800	F881KG152(1)300(2)
0.0018	KH	4	9	10	7.5	800	F881KH182(1)300(2)
0.0022	KH	4	9	10	7.5	800	F881KH222(3)300(2)
0.0025	KJ	5	10.5	10	7.5	800	F881KJ252(1)300(2)
0.0027	KJ	5	10.5	10	7.5	800	F881KJ272(1)300(2)
0.0033	KJ	5	10.5	10	7.5	800	F881KJ332(1)300(2)
0.0039	KJ	5	10.5	10	7.5	800	F881KJ392(3)300(2)
0.0039	KM	6	12	10.5	7.5	800	F881KM392(1)300(2)
0.0047	KM	6	12	10.5	7.5	800	F881KM472(1)300(2)
0.0056	KM	6	12	10.5	7.5	800	F881KM562(3)300(2)
0.001	AE	4	8	13	10	800	F881AE102(1)300(2)
0.0012	AE	4	8	13	10	800	F881AE122(1)300(2)
0.0015	AE	4	8	13	10	800	F881AE152(1)300(2)
0.0018	AE	4	8	13	10	800	F881AE182(1)300(2)
0.0018	AL	9.5	7.5	13	10	800	F881AL182(1)300(2)
0.0022	AL	9.5	7.5	13	10	800	F881AL222(1)300(2)
0.0025	AG	4	9	13	10	800	F881AG252(1)300(2)
0.0025	AL	9.5	7.5	13	10	800	F881AL252(1)300(2)
0.0027	AG	4	9	13	10	800	F881AG272(1)300(2)
0.0027	AL	9.5	7.5	13	10	800	F881AL272(1)300(2)
0.0033	AK	5	11	13	10	800	F881AK332(1)300(2)
0.0033	AL	9.5	7.5	13	10	800	F881AL332(1)300(2)
0.0039	AK	5	11	13	10	800	F881AK392(1)300(2)
0.0039	AL	9.5	7.5	13	10	800	F881AL392(1)300(2)
0.0047	AK	5	11	13	10	800	F881AK472(3)300(2)
0.0047	AL	9.5	7.5	13	10	800	F881AL472(1)300(2)
0.0056	AL	9.5	7.5	13	10	800	F881AL562(1)300(2)
0.0056	AP	6	12	13	10	800	F881AP562(1)300(2)
0.0068	AL	9.5	7.5	13	10	800	F881AL682(3)300(2)
0.0068	AP	6	12	13	10	800	F881AP682(1)300(2)
0.0082	AO	7	17	13	10	800	F881AO822(1)300(2)
0.01	AO	7	17	13	10	800	F881AO103(1)300(2)
0.0027	BB	4	10	18	15	600	F881BB272(1)300(2)
0.0033	BB	4	10	18	15	600	F881BB332(1)300(2)
0.0039	BB	4	10	18	15	600	F881BB392(1)300(2)
0.0047	BB	4	10	18	15	600	F881BB472(1)300(2)
0.0056	BB	4	10	18	15	600	F881BB562(1)300(2)
0.0068	BB	4	10	18	15	600	F881BB682(1)300(2)
0.0082	BB	4	10	18	15	600	F881BB822(1)300(2)
0.01	BB	4	10	18	15	600	F881BB103(3)300(2)
0.01	BC	5	11	18	15	600	F881BC103(1)300(2)
0.012	BC	5	11	18	15	600	F881BC123(1)300(2)
0.015	BC	5	11	18	15	600	F881BC153(3)300(2)
0.015	BE	5.5	12.5	18	15	600	F881BE153(1)300(2)
0.015	BT	9	12.5	18	15	600	F881BT153(1)300(2)
0.018	BE	5.5	12.5	18	15	600	F881BE183(1)300(2)
0.018	BT	9	12.5	18	15	600	F881BT183(1)300(2)
0.022	BG	6	12	18	15	600	F881BG223(1)300(2)
0.022	BT	9	12.5	18	15	600	F881BT223(1)300(2)
0.025	BI	6	17.5	18	15	600	F881BI253(3)300(2)
0.025	BI	6	17.5	18	15	600	F881BI253(1)300(2)
0.025	BK	7.5	13.5	18	15	600	F881BK253(1)300(2)
0.025	BR	13	12	18	15	600	F881BR253(1)300(2)
0.025	BT	9	12.5	18	15	600	F881BT253(1)300(2)
0.027	BI	6	17.5	18	15	600	F881BI273(1)300(2)
0.027	BK	7.5	13.5	18	15	600	F881BK273(1)300(2)
0.027	BR	13	12	18	15	600	F881BR273(1)300(2)
Cap Value (μ F)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/ μ s)	Part Number

(1) $M = \pm 20\%$, $K = \pm 10\%$, $J = \pm 5\%$ on request.

(2) Insert lead and packaging code. See table for available options.

(3) $M = \pm 20\%$ (only available tolerance).

Table 1 – Ratings & Part Number Reference cont'd

Cap Value (μ F)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/ μ s)	Part Number
		B	H	L			
0.027	BT	9	12.5	18	15	600	F881BT273(1)300(2)
0.033	BI	6	17.5	18	15	600	F881BI333(1)300(2)
0.033	BO	7.5	18.5	18	15	600	F881BO333(1)300(2)
0.033	BR	13	12	18	15	600	F881BR333(1)300(2)
0.033	BT	9	12.5	18	15	600	F881BT333(1)300(2)
0.039	BI	6	17.5	18	15	600	F881BI393(3)300(2)
0.039	BO	7.5	18.5	18	15	600	F881BO393(1)300(2)
0.039	BP	8.5	14.5	18	15	600	F881BP393(1)300(2)
0.039	BR	13	12	18	15	600	F881BR393(1)300(2)
0.039	BT	9	12.5	18	15	600	F881BT393(3)300(2)
0.047	BO	7.5	18.5	18	15	600	F881BO473(1)300(2)
0.047	BP	8.5	14.5	18	15	600	F881BP473(3)300(2)
0.047	BR	13	12	18	15	600	F881BR473(1)300(2)
0.047	BS	10	16	18	15	600	F881BS473(1)300(2)
0.056	BO	7.5	18.5	18	15	600	F881BO563(3)300(2)
0.056	BR	13	12	18	15	600	F881BR563(3)300(2)
0.056	BS	10	16	18	15	600	F881BS563(1)300(2)
0.068	BY	11	19	18	15	600	F881BY683(1)300(2)
0.082	BY	11	19	18	15	600	F881BY823(3)300(2)
0.082	BZ	12	20	18	15	600	F881BZ823(1)300(2)
0.039	DB	6	14.5	26	22.5	500	F881DB393(1)300(2)
0.047	DB	6	14.5	26	22.5	500	F881DB473(1)300(2)
0.056	DB	6	14.5	26	22.5	500	F881DB563(3)300(2)
0.056	DI	7	16	26	22.5	500	F881DI563(1)300(2)
0.068	DI	7	16	26	22.5	500	F881DI683(1)300(2)
0.082	DH	8	16	26	22.5	500	F881DH823(1)300(2)
0.082	DI	7	16	26	22.5	500	F881DI823(3)300(2)
0.1	DH	8	16	26	22.5	500	F881DH104(3)300(2)
0.1	DJ	8.5	17	26	22.5	500	F881DJ104(1)300(2)
0.12	DJ	8.5	17	26	22.5	500	F881DJ124(3)300(2)
0.12	DM	9	18.5	26	22.5	500	F881DM124(1)300(2)
0.15	DO	10	18.5	26	22.5	500	F881DO154(1)300(2)
0.18	DP	11	20	26	22.5	500	F881DP184(1)300(2)
0.22	DP	11	20	26	22.5	500	F881DP224(3)300(2)
0.22	DU	13	22	26	22.5	500	F881DU224(1)300(2)
0.25	DU	13	22	26	22.5	500	F881DU254(1)300(2)
0.27	DU	13	22	26	22.5	500	F881DU274(1)300(2)
0.33	DY	15.5	24.5	26	22.5	500	F881DY334(1)300(2)
0.39	DY	15.5	24.5	26	22.5	500	F881DY394(1)300(2)
0.1	FB	9	17	31.5	27.5	400	F881FB104(1)300(2)
0.12	FB	9	17	31.5	27.5	400	F881FB124(1)300(2)
0.15	FB	9	17	31.5	27.5	400	F881FB154(1)300(2)
0.18	FC	11	20	31.5	27.5	400	F881FC184(1)300(2)
0.22	FC	11	20	31.5	27.5	400	F881FC224(1)300(2)
0.22	FH	21	12.5	31.5	27.5	400	F881FH224(1)300(2)
0.25	FC	11	20	31.5	27.5	400	F881FC254(3)300(2)
0.25	FH	21	12.5	31.5	27.5	400	F881FH254(1)300(2)
0.27	FC	11	20	31.5	27.5	400	F881FC274(3)300(2)
0.27	FH	21	12.5	31.5	27.5	400	F881FH274(1)300(2)
0.27	FI	13	25	31.5	27.5	400	F881FI274(1)300(2)
0.33	FH	21	12.5	31.5	27.5	400	F881FH334(3)300(2)
0.33	FI	13	25	31.5	27.5	400	F881FI334(1)300(2)
0.39	FI	13	25	31.5	27.5	400	F881FI394(1)300(2)
0.39	FQ	27.5	16	31.5	27.5	400	F881FQ394(1)300(2)
0.47	FI	13	25	31.5	27.5	400	F881FI474(3)300(2)
0.47	FN	14	28	31.5	27.5	400	F881FN474(1)300(2)
0.47	FQ	27.5	16	31.5	27.5	400	F881FQ474(1)300(2)
0.56	FO	17	40	31.5	27.5	400	F881FO564(1)300(2)
0.56	FQ	27.5	16	31.5	27.5	400	F881FQ564(3)300(2)
Cap Value (μ F)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/ μ s)	Part Number

(1) $M = \pm 20\%$, $K = \pm 10\%$, $J = \pm 5\%$ on request.

(2) Insert lead and packaging code. See table for available options.

(3) $M = \pm 20\%$ (only available tolerance).

Table 1 – Ratings & Part Number Reference cont'd

Cap Value (μ F)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/ μ s)	Part Number
		B	H	L			
0.56	FR	17.5	28	31.5	27.5	400	F881FR564(1)300(2)
0.56	FT	31	19	31.5	27.5	400	F881FT564(1)300(2)
0.68	FO	17	40	31.5	27.5	400	F881FO684(1)300(2)
0.68	FR	17.5	28	31.5	27.5	400	F881FR684(1)300(2)
0.68	FT	31	19	31.5	27.5	400	F881FT684(1)300(2)
0.82	FO	17	40	31.5	27.5	400	F881FO824(1)300(2)
0.82	FS	19	29	31.5	27.5	400	F881FS824(3)300(2)
0.82	FT	31	19	31.5	27.5	400	F881FT824(3)300(2)
0.82	FY	22	37	31.5	27.5	400	F881FY824(1)300(2)
1	FO	17	40	31.5	27.5	400	F881FO105(3)300(2)
1	FY	22	37	31.5	27.5	400	F881FY105(1)300(2)
0.33	RB	11	22	41	37.5	300	F881RB334(1)300(2)
0.39	RB	11	22	41	37.5	300	F881RB394(1)300(2)
0.47	RB	11	22	41	37.5	300	F881RB474(3)300(2)
0.47	RF	13	24	41	37.5	300	F881RF474(1)300(2)
0.47	RV	24	15	41	37.5	300	F881RV474(1)300(2)
0.56	RF	13	24	41	37.5	300	F881RF564(1)300(2)
0.56	RV	24	15	41	37.5	300	F881RV564(1)300(2)
0.68	RF	13	24	41	37.5	300	F881RF684(3)300(2)
0.68	RH	15	26	41	37.5	300	F881RH684(1)300(2)
0.68	RV	24	15	41	37.5	300	F881RV684(3)300(2)
0.82	RH	15	26	41	37.5	300	F881RH824(1)300(2)
0.82	RW	24	19	41	37.5	300	F881RW824(1)300(2)
1	RC	16	28.5	41	37.5	300	F881RC105(3)300(2)
1	RD	19	32	41	37.5	300	F881RD105(1)300(2)
1	RW	24	19	41	37.5	300	F881RW105(3)300(2)
Cap Value (μ F)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/ μ s)	Part Number

(1) $M = \pm 20\%$, $K = \pm 10\%$, $J = \pm 5\%$ on request.

(2) Insert lead and packaging code. See table for available options.

(3) $M = \pm 20\%$ (only available tolerance).

F611 & F612 Series Metallized Polyester Film, 5 – 37.5 mm Lead Spacing, 50 – 1,000 VDC

Overview

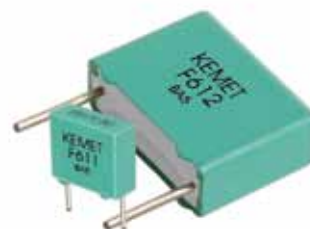
The F611 and F612 Series is constructed of metallized wound or stacked polyester film capacitor with radial leads of tinned wire. Radial leads are electrically welded to the contact metal layer on the ends of the capacitor winding. The capacitor is encapsulated in a self-extinguishing material meeting the requirements of UL 94 V-0.

Applications

Typical applications include blocking, coupling, decoupling, bypassing and interference suppression in low voltage applications such as automotive. Not for use with the mains.

Benefits

- Voltage range: 50 – 1,000 VDC
- Capacitance range: 0.001 – 330 μ F
- Lead spacing: 5 – 37.5 mm
- Capacitance tolerance: $\pm 20\%$, $\pm 10\%$, $\pm 5\%$ on request
- Climatic category: 55/105/56, IEC 60068-1
- Tape and reel packaging in accordance with IEC 60286-2
- RoHS Compliant and lead-free terminations
- Operating temperature range of -55°C to +105°C



Part Number System

F	611	J	F	104	M	050	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Voltage (VDC)	Lead and Packaging Code
F = Film	Metallized Polyester 611 = Wound 612 = Stacked	J = 5 K = 7.5 A = 10.0 B = 15.0 D = 22.5 F = 27.5 R = 37.5	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	050 = 50 063 = 63 100 = 100 160 = 160 250 = 250 400 = 400 630 = 630 1K0 = 1000	See Ordering Options Table

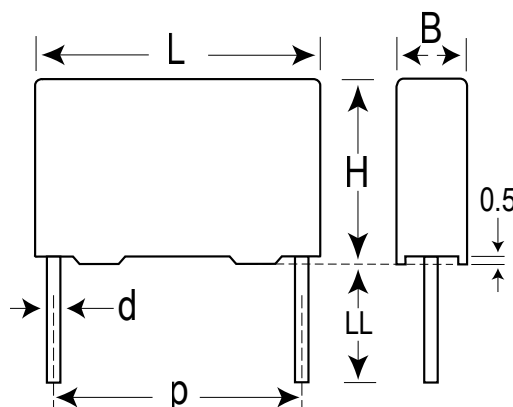
Ordering Options Table

Lead Spacing Nominal (mm)	Type of Leads and Packaging	Lead Length (mm)	Lead and Packaging Code
5	Standard Lead and Packaging Options		
	Bulk (Bag) – Short Leads	4 +2/-0	C
	Bulk (Bag) – Long Leads	17 +0/-1	A
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Other Lead and Packaging Options		
	Bulk (Bag) – Max Length Leads	20 +5/-0	ALL0L
	Ammo Pack	H ₀ = 18.5 +/-0.5	R
7.5	Standard Lead and Packaging Options		
	Bulk (Bag) – Short Leads	4 +2/-0	C
	Bulk (Bag) – Long Leads	17 +0/-1	A
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Other Lead and Packaging Options		
	Bulk (Bag) – Max Length Leads	20 +5/-0	ALL0L
	Ammo Pack	H ₀ = 18.5 +/-0.5	R
10	Standard Lead and Packaging Options		
	Bulk (Bag) – Short Leads	4 +2/-0	C
	Bulk (Bag) – Long Leads	17 +0/-1	A
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Other Lead and Packaging Options		
	Bulk (Bag) – Max Length Leads	20 +5/-0	ALL0L
	Ammo Pack	H ₀ = 18.5 +/-0.5	R
15	Standard Lead and Packaging Options		
	Bulk (Bag) – Short Leads	4 +2/-0	C
	Bulk (Bag) – Long Leads	17 +0/-1	A
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Pizza Pack	4 +2/-0	Z
	Other Lead and Packaging Options		
	Bulk (Bag) – Max Length Leads	25 +5/-0	ALR0L
	Ammo Pack	H ₀ = 18.5 +/-0.5	R
	Tape & Reel (Large Reel)	H ₀ = 18.5 +/-0.5	P

Ordering Options Table cont'd

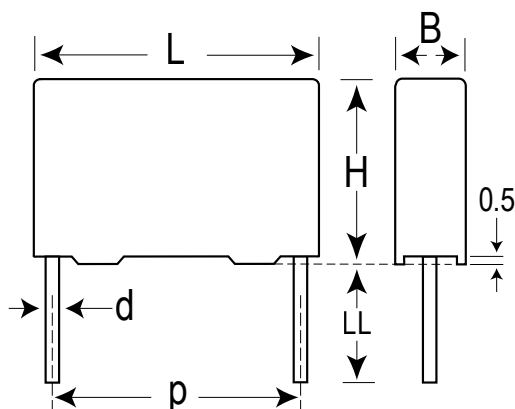
Lead Spacing Nominal (mm)	Type of Leads and Packaging	Lead Length (mm)	Lead and Packaging Code
22.5	Standard Lead and Packaging Options		
	Bulk (Tray) – Short Leads	4 +2/-0	C
	Bulk (Tray) – Long Leads	17 +0/-1	A
	Pizza Pack	4 +2/-0	Z
	Other Lead and Packaging Options		
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Tape & Reel (Large Reel)	H ₀ = 18.5 +/-0.5	P
	Ammo Pack	H ₀ = 18.5 +/-0.5	R
27.5	Standard Lead and Packaging Options		
	Bulk (Tray) – Short Leads	4 +2/-0	C
	Bulk (Tray) – Long Leads	17 +0/-1	A
	Pizza Pack	4 +2/-0	Z
37.5	Standard Lead and Packaging Options		
	Bulk (Tray) – Short Leads	4 +2/-0	C
	Bulk (Tray) – Long Leads	17 +0/-1	A
	Pizza Pack	4 +2/-0	Z

Dimensions – Millimeters



Size Code	p		B		H		L		d	
	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
JF	5.0	+/-0.4	2.5	Max	6.5	Max	7.2	Max	0.6	+/-0.05
JF	5.0	+/-0.4	2.5	Max	7.5	Max	7.2	Max	0.6	+/-0.05
JG	5.0	+/-0.4	3.5	Max	7.5	Max	7.2	Max	0.6	+/-0.05
JM	5.0	+/-0.4	4.5	Max	9.5	Max	7.2	Max	0.6	+/-0.05
JQ	5.0	+/-0.4	5.0	Max	10.0	Max	7.2	Max	0.6	+/-0.05
JT	5.0	+/-0.4	6.0	Max	11.0	Max	7.2	Max	0.6	+/-0.05
JU	5.0	+/-0.4	7.2	Max	13.0	Max	7.2	Max	0.6	+/-0.05
KE	7.5	+/-0.4	2.5	Max	6.0	Max	10.0	Max	0.6	+/-0.05
KF	7.5	+/-0.4	3.0	Max	8.0	Max	10.0	Max	0.6	+/-0.05
KG	7.5	+/-0.4	4.0	Max	8.0	Max	10.0	Max	0.6	+/-0.05
KH	7.5	+/-0.4	4.0	Max	9.0	Max	10.0	Max	0.6	+/-0.05
KJ	7.5	+/-0.4	5.0	Max	10.5	Max	10.0	Max	0.6	+/-0.05
KM	7.5	+/-0.4	6.0	Max	12.0	Max	10.5	Max	0.6	+/-0.05
AG	10.0	+/-0.4	4.0	Max	9.0	Max	13.0	Max	0.6	+/-0.05
AK	10.0	+/-0.4	5.0	Max	11.0	Max	13.0	Max	0.6	+/-0.05
AP	10.0	+/-0.4	6.0	Max	12.0	Max	13.0	Max	0.6	+/-0.05
BB	15.0	+/-0.4	4.0	Max	10.0	Max	18.0	Max	0.8	+/-0.05
BC	15.0	+/-0.4	5.0	Max	11.0	Max	18.0	Max	0.8	+/-0.05
BE	15.0	+/-0.4	5.5	Max	12.5	Max	18.0	Max	0.8	+/-0.05
BG	15.0	+/-0.4	6.0	Max	12.0	Max	18.0	Max	0.8	+/-0.05
BK	15.0	+/-0.4	7.5	Max	13.5	Max	18	Max	0.8	+/-0.05
BK	15.0	+/-0.4	7.5	Max	13.5	Max	18.0	Max	0.8	+/-0.05
BP	15.0	+/-0.4	8.5	Max	14.5	Max	18.0	Max	0.8	+/-0.05
BS	15.0	+/-0.4	10.0	Max	16.0	Max	18.0	Max	0.8	+/-0.05
BY	15.0	+/-0.4	11.0	Max	19.0	Max	18.0	Max	0.8	+/-0.05
DB	22.5	+/-0.4	6.0	Max	14.5	Max	26	Max	0.8	+/-0.05
DB	22.5	+/-0.4	6.0	Max	14.5	Max	26.0	Max	0.8	+/-0.05
DI	22.5	+/-0.4	7.0	Max	16.0	Max	26.0	Max	0.8	+/-0.05
DH	22.5	+/-0.4	8.0	Max	16.0	Max	26.0	Max	0.8	+/-0.05
DJ	22.5	+/-0.4	8.5	Max	17.0	Max	26.0	Max	0.8	+/-0.05
Note: See Ordering Options Table for lead length (LL) options.										

Dimensions – Millimeters cont'd



Size Code	p		B		H		L		d	
	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
DM	22.5	+/-0.4	9.0	Max	18.5	Max	26.0	Max	0.8	+/-0.05
DO	22.5	+/-0.4	10.0	Max	18.5	Max	26.0	Max	0.8	+/-0.05
DP	22.5	+/-0.4	11.0	Max	20.0	Max	26.0	Max	0.8	+/-0.05
DU	22.5	+/-0.4	13.0	Max	22.0	Max	26.0	Max	0.8	+/-0.05
DY	22.5	+/-0.4	15.5	Max	24.5	Max	26.0	Max	0.8	+/-0.05
FB	27.5	+/-0.4	9.0	Max	17.0	Max	31.5	Max	0.8	+/-0.05
FC	27.5	+/-0.4	11.0	Max	20.0	Max	31.5	Max	0.8	+/-0.05
FI	27.5	+/-0.4	13.0	Max	25.0	Max	31.5	Max	0.8	+/-0.05
FN	27.5	+/-0.4	14.0	Max	28.0	Max	31.5	Max	0.8	+/-0.05
FR	27.5	+/-0.4	17.5	Max	28.0	Max	31.5	Max	0.8	+/-0.05
FS	27.5	+/-0.4	19.0	Max	29.0	Max	31.5	Max	0.8	+/-0.05
FY	27.5	+/-0.4	22.0	Max	37.0	Max	31.5	Max	0.8	+/-0.05
RB	37.5	+/-0.4	11.0	Max	22.0	Max	41.0	Max	1	+/-0.05
RF	37.5	+/-0.4	13.0	Max	24.0	Max	41.0	Max	1	+/-0.05
RH	37.5	+/-0.4	15.0	Max	26.0	Max	41.0	Max	1	+/-0.05
RC	37.5	+/-0.4	16.0	Max	28.5	Max	41.0	Max	1	+/-0.05
RD	37.5	+/-0.4	19.0	Max	32.0	Max	41.0	Max	1	+/-0.05
RP	37.5	+/-0.4	21.0	Max	38.0	Max	41.0	Max	1	+/-0.05
RO	37.5	+/-0.4	24.0	Max	44.0	Max	41.0	Max	1	+/-0.05
RU	37.5	+/-0.4	30.0	Max	45.0	Max	41.0	Max	1	+/-0.05

Note: See Ordering Options Table for lead length (LL) options.

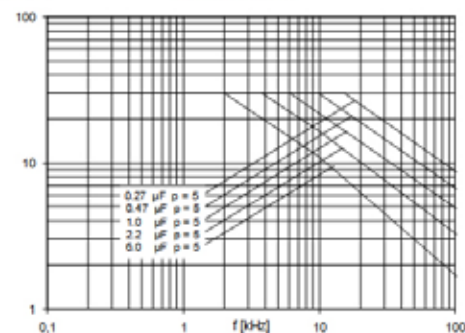
Performance Characteristics

Voltage Range V _R (VDC)	50	63	100	160	250	400	630	1,000
Voltage Range V _R (VAC)	30	40	63	90	160/140	200/160	220	250
Capacitance Range (μF)	0.27 – 15	0.1 – 330	0.001 – 220	0.18 – 180	0.0068 – 82	0.001 – 33	0.0012 – 12	0.001 – 5.6
Capacitance Tolerance	±20%, ±10%, ±5% on request							
Category Temperature Range	-55°C to 105°C							
Voltage Derating	Above +85°C DC and AC voltage derating is 1.25%/°C							
Rated Temperature	+85°C							
Climatic Category	IEC60068–1, 55/105/56							
	–55 to +105°C (For +125°C, please consult KEMET)							
	Average relative humidity ≤ 75%							
	RH = 95% for 30 days per year							
	RH = 85% for further days limited by average value per year							
Test Voltage	1.6 x V _R VDC for 2 seconds							
Capacitance Drift	Maximum 2% after a 2 year storage period at a temperature of +10°C to +40°C and a relative humidity of 40% to 60%							
Reliability	Operational life > 200,000 hours							
	Failure rate < 3 FIT, T = +40°C, V = 0.5 x V _R							
	Failure criteria: open circuit, short circuit, cap change > 10%, DF 2 times the catalog limits, IR < 50 MΩ							
Maximum Pulse Steepness	dV/dt according to Table 1. For peak to peak voltages lower than rated voltage (Vpp < V _R), the specified dV/dt can be multiplied by the factor V _R /Vpp.							
Temperature Coefficient	+400 (±200) ppm/°C at 1 kHz							
Self Inductance	Approximately 6 nH/cm for the total length of capacitor winding and the leads							
Dissipation Factor tanδ	Maximum Values at +23°C							
		C ≤ 0.1 μF		0.1 μF < C ≤ 1.0 μF		C > 1.0 μF		
Lead Spacing 5 mm	1 kHz	0.8%		0.8%		0.8%		
	10 kHz	1.2%		1.2%		1.5%		
	100 kHz	2.5%						
Lead Spacing 7.5 – 37.5 mm	1 kHz	0.8%		0.8%		1.2%		
	10 kHz	1.5%		1.5%				
	100 kHz	3.0%						
Insulation Resistance	Measured at +20°C, according to IEC 60384–2							
	Minimum Values Between Terminals							
				C ≤ 0.33 μF		C > 0.33 μF		
	V _R ≤ 100 VDC			15,000 MΩ		5,000 MΩ • μF		
	V _R > 100 VDC			30,000 MΩ		10,000 MΩ • μF		

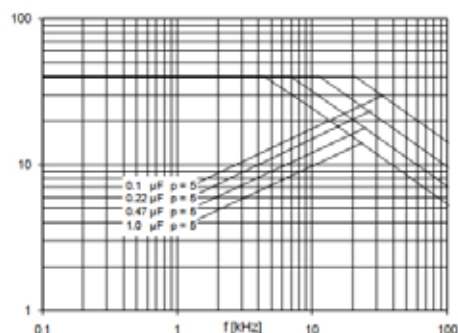
Maximum Voltage (V_{rms}) vs. Frequency (Sinusoidal Waveform/ $T_h \leq 40^\circ\text{C}$)

Lead Spacing 5 mm

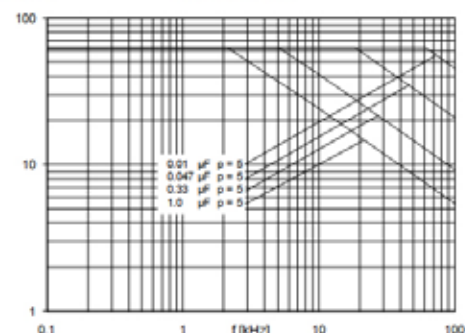
50 Vdc / 30 Vac



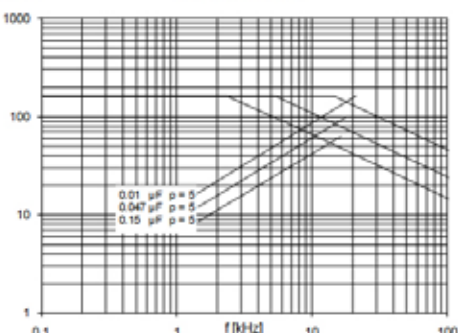
63 Vdc / 40 Vac



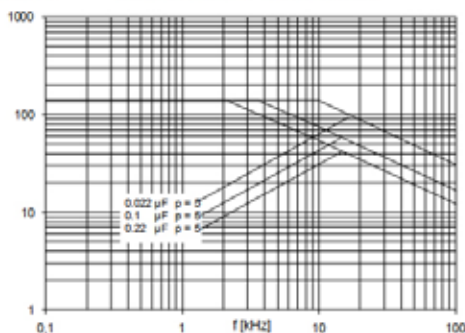
100 Vdc / 63 Vac



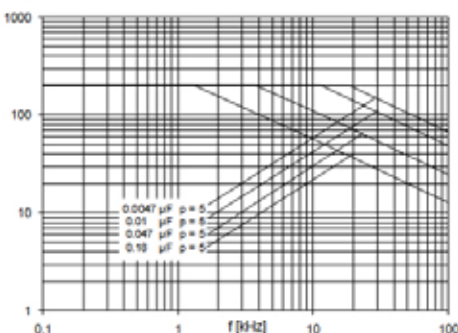
250 Vdc / 160 Vac



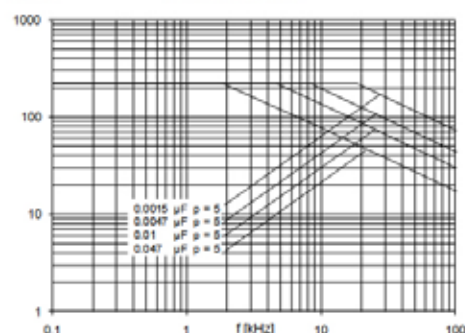
250 Vdc / 140 Vac - Reduced Sizes



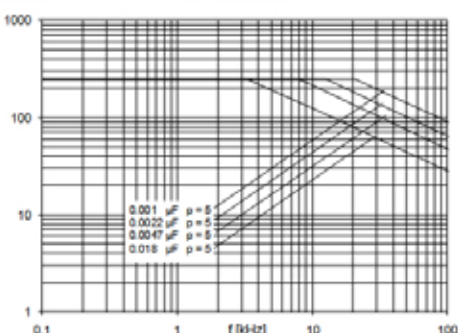
400 Vdc / 200 Vac



630 Vdc / 220 Vac

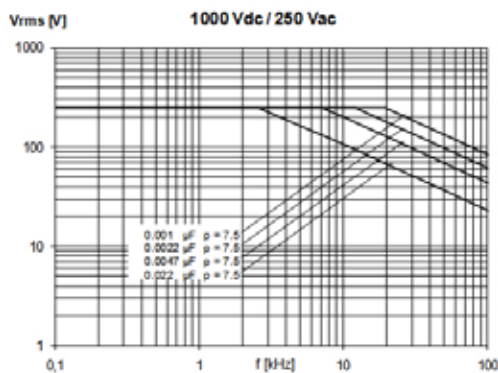
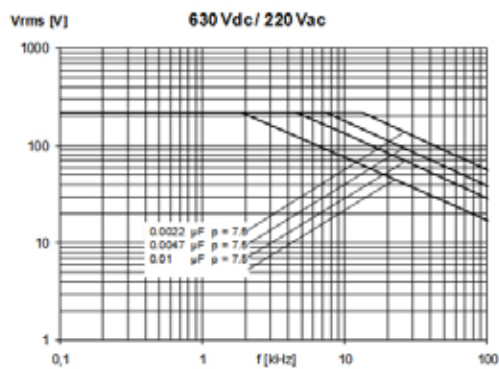
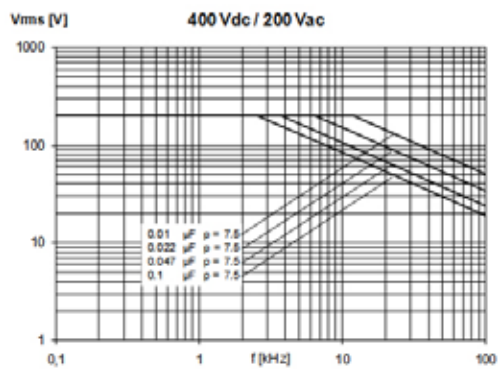
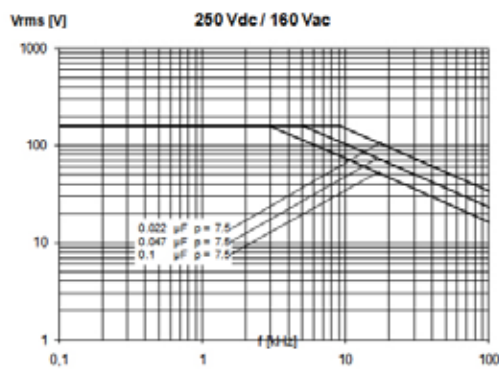
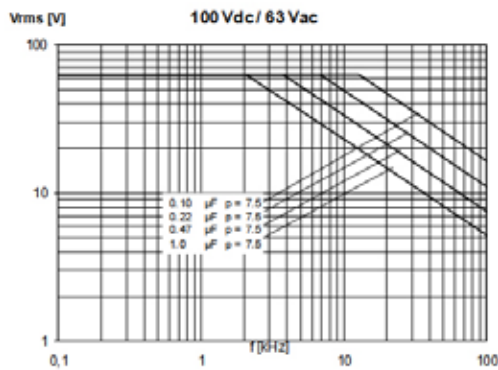
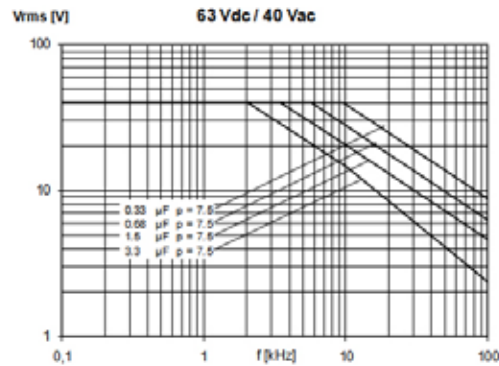
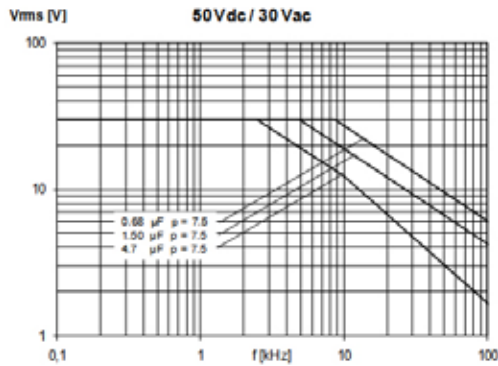


1000 Vdc / 250 Vac



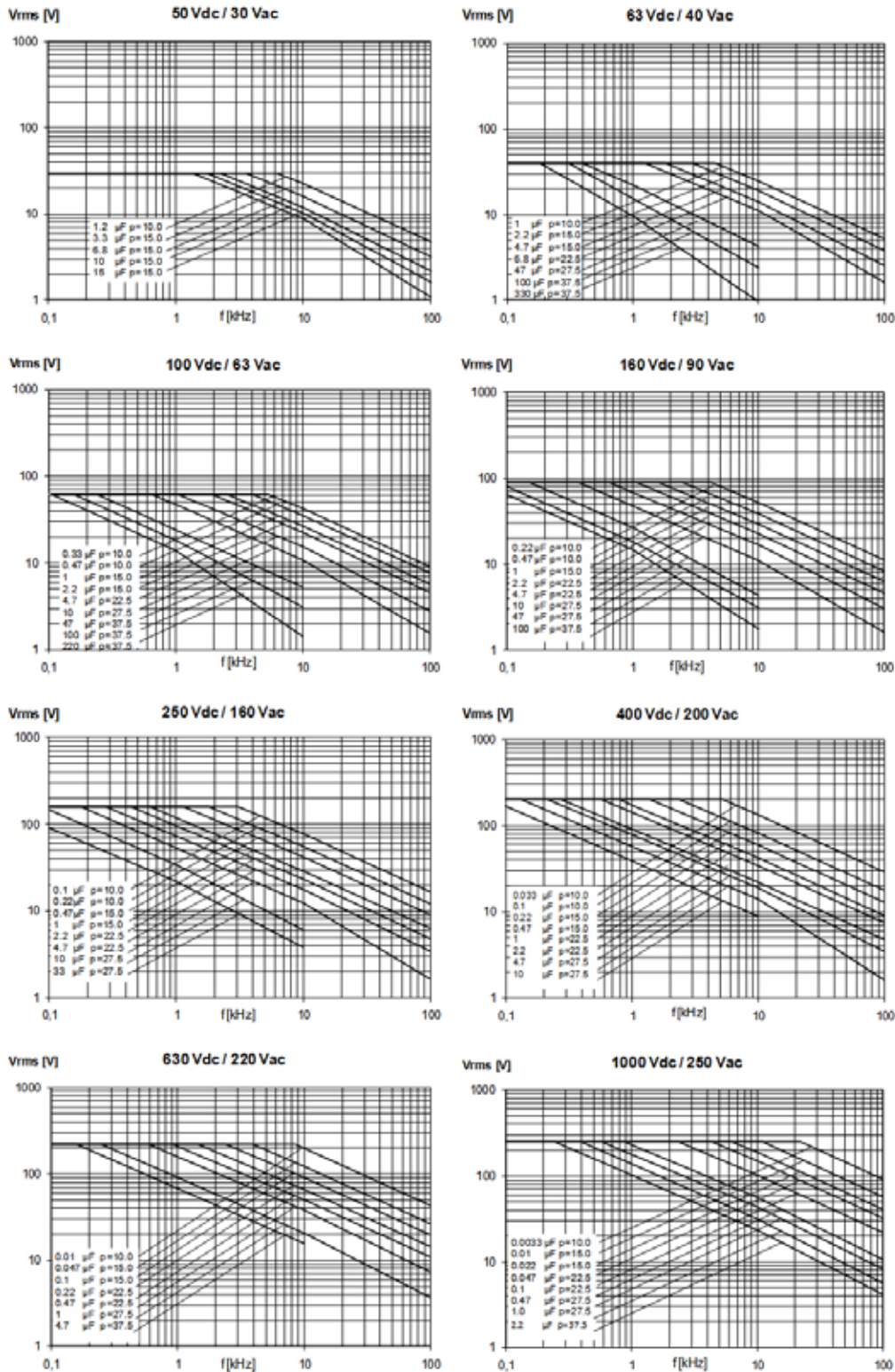
Maximum Voltage (V_{rms}) vs. Frequency (Sinusoidal Waveform/ $T_h \leq 40^\circ\text{C}$)

Lead Spacing 7.5 mm



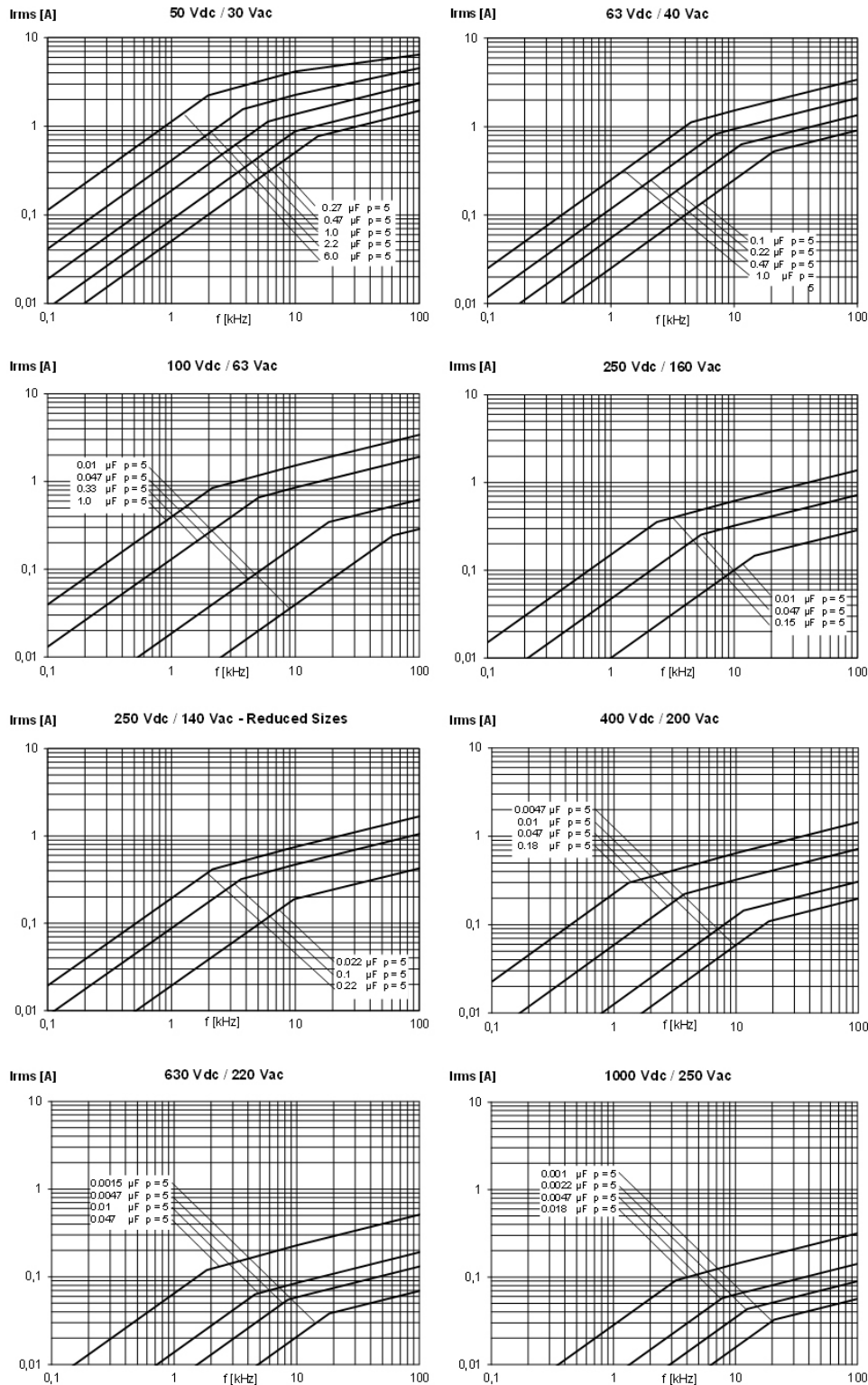
Maximum Voltage (V_{rms}) vs. Frequency (Sinusoidal Waveform/ $T_h \leq 40^\circ\text{C}$)

Lead Spacing 10 – 37.5 mm



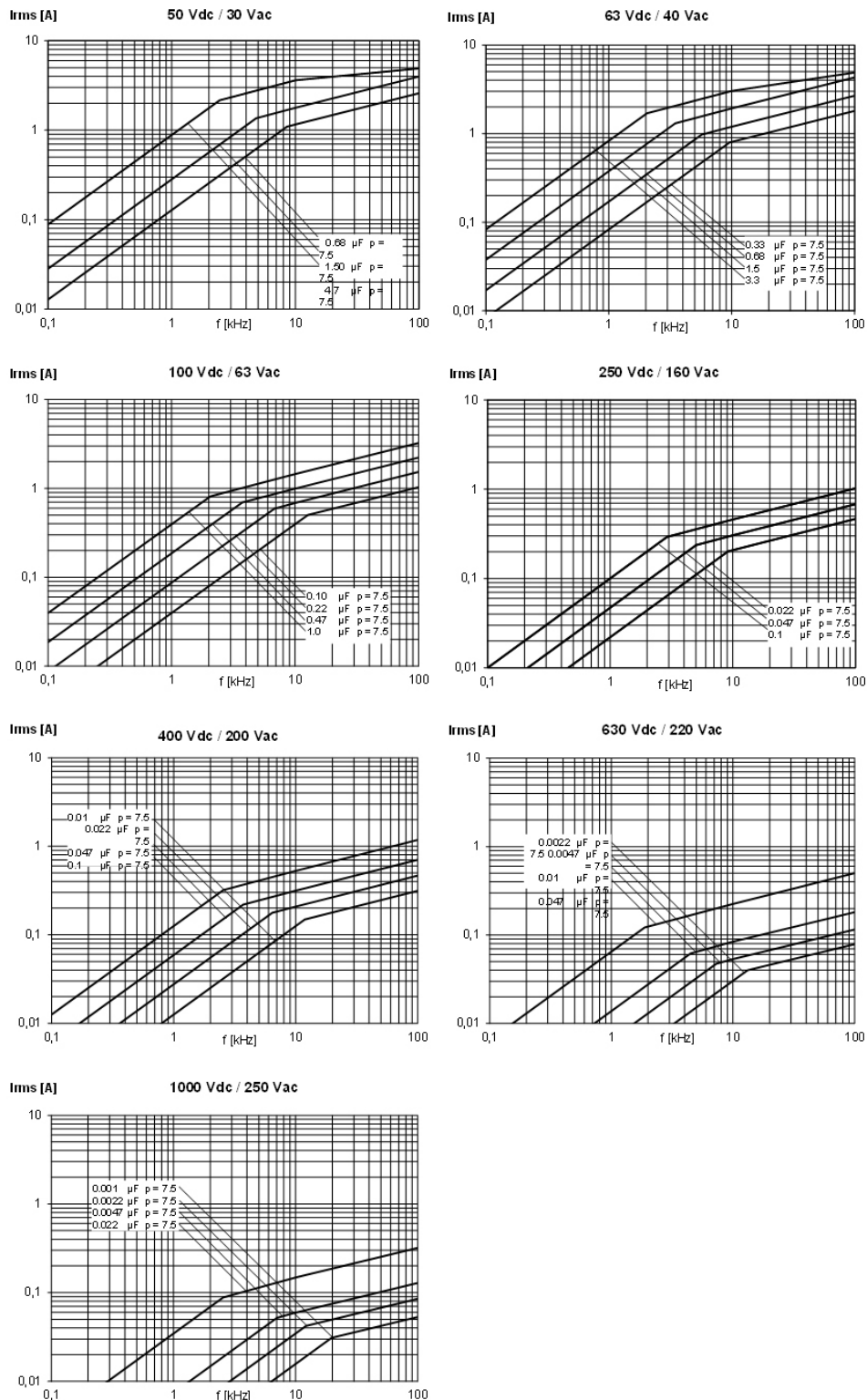
Max Current (I_{rms}) vs. Frequency (Sinusoidal Waveform/ $T_h \leq 40^\circ\text{C}$)

Lead Spacing 5 mm



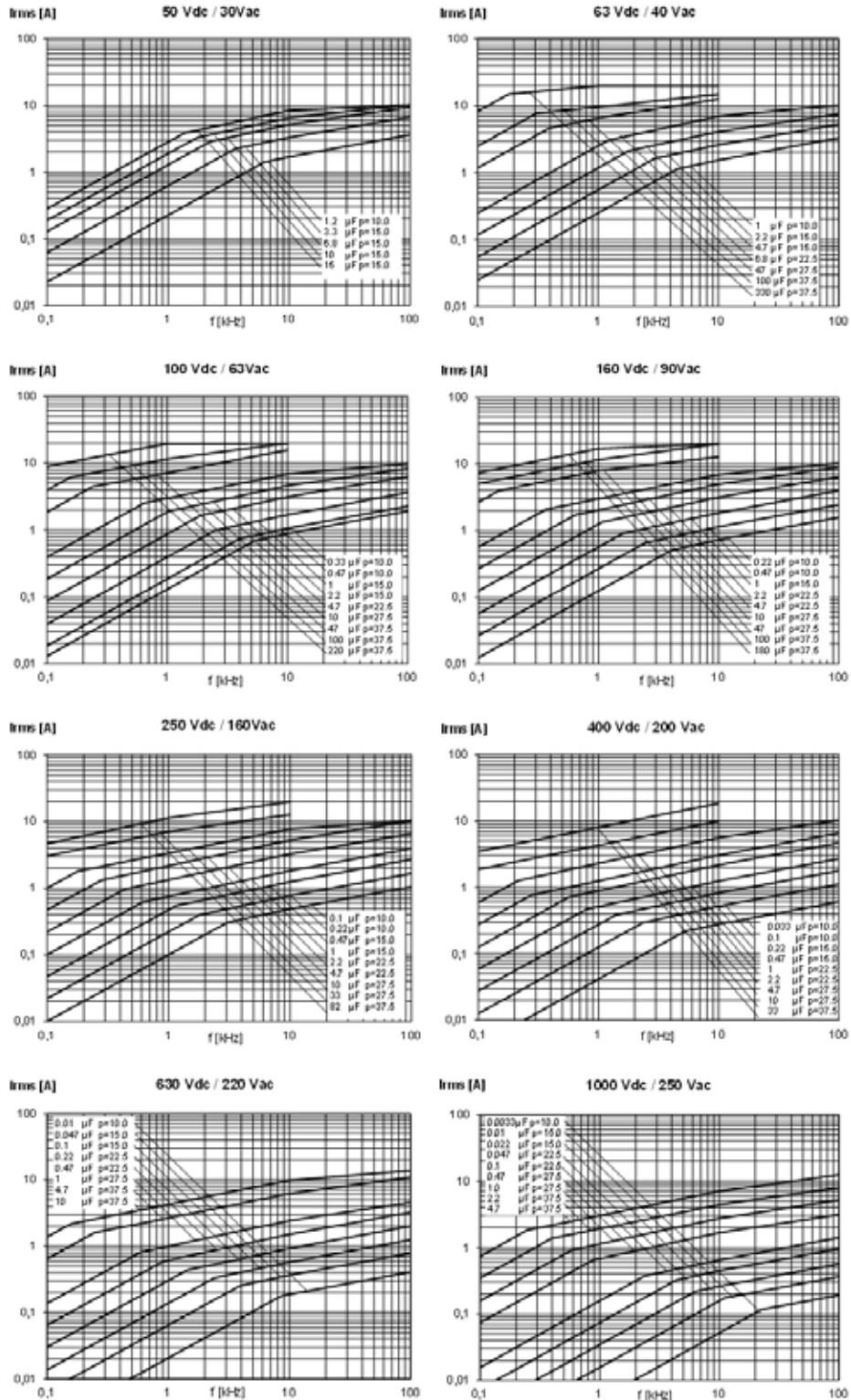
Max Current (I_{rms}) vs. Frequency (Sinusoidal Waveform/ $T_h \leq 40^\circ\text{C}$)

Lead Spacing 7.5 mm



Max Current (I_{rms}) vs. Frequency (Sinusoidal Waveform/ $T_h \leq 40^\circ\text{C}$)

Lead Spacing 10 – 37.5 mm



Environmental Test Data

Damp Heat Test	Test Conditions	T = +40°C, RH = 93%, t = 56 days
	Test Criteria	$\Delta C/C \leq \pm 5\%$ $\Delta \tan \delta \leq 0.005$ (1 kHz) IR after test 0.5 x IR minimum
Endurance Test	Test Conditions	T = +100°C, U = 1.25 x (0.8 x U _R)
	Test Criteria	t = 2,000 hours $\Delta C/C \leq \pm 5\%$, $\Delta \tan \delta \leq 0.005$ (1 kHz) $\Delta \tan \delta \leq 0.010$ (100 kHz) IR after test 0.5 x IR minimum

Environmental Compliance

All KEMET MKTI capacitors are RoHS Compliant.



RoHS Compliant

Table 1 – Ratings & Part Number Reference

VDC	VAC	Cap Value (μF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/μs)	Part Number
				B	H	L			
50	30	0.27	JF	2.5	6.5	7.2	5.0	12	F611JF274(1)050(2)
50	30	0.39	JF	2.5	6.5	7.2	5.0	12	F611JF394(1)050(2)
50	30	0.47	JF	2.5	6.5	7.2	5.0	12	F611JF474(1)050(2)
50	30	0.56	JG	3.5	7.5	7.2	5.0	12	F611JG564(1)050(2)
50	30	0.68	JG	3.5	7.5	7.2	5.0	12	F611JG684(1)050(2)
50	30	0.82	JG	3.5	7.5	7.2	5.0	12	F611JG824(1)050(2)
50	30	1.0	JG	3.5	7.5	7.2	5.0	12	F611JG105(1)050(2)
50	30	1.2	JM	4.5	9.5	7.2	5.0	12	F611JM125(1)050(2)
50	30	1.5	JM	4.5	9.5	7.2	5.0	12	F611JM155(1)050(2)
50	30	1.8	JQ	5	10	7.2	5.0	12	F611JQ185(1)050(2)
50	30	2.2	JQ	5	10	7.2	5.0	12	F611JQ225(1)050(2)
50	30	2.7	JT	6	11	7.2	5.0	12	F611JT275(1)050(2)
50	30	3.3	JT	6	11	7.2	5.0	12	F611JT335(1)050(2)
50	30	3.9	JU	7.2	13	7.2	5.0	12	F611JU395(1)050(2)
50	30	4.7	JU	7.2	13	7.2	5.0	12	F611JU475(1)050(2)
50	30	5.6	JU	7.2	13	7.2	5.0	12	F611JU565(1)050(2)
50	30	6.0	JU	7.2	13	7.2	5.0	12	F611JU605(1)050(2)
50	30	0.68	KF	3	8	10	7.5	100	F612KF684(1)050(2)
50	30	0.82	KF	3	8	10	7.5	100	F612KF824(1)050(2)
50	30	1.0	KF	3	8	10	7.5	100	F612KF105(1)050(2)
50	30	1.2	KH	4	9	10	7.5	100	F612KH125(1)050(2)
50	30	1.5	KH	4	9	10	7.5	100	F612KH155(1)050(2)
50	30	1.8	KJ	5	10.5	10	7.5	100	F612KJ185(1)050(2)
50	30	2.2	KJ	5	10.5	10	7.5	100	F612KJ225(1)050(2)
50	30	2.7	KJ	5	10.5	10	7.5	100	F612KJ275(1)050(2)
50	30	3.3	KJ	5	10.5	10	7.5	100	F612KJ335(1)050(2)
50	30	3.9	KM	6	12	10.5	7.5	100	F612KM395(1)050(2)
50	30	4.7	KM	6	12	10.5	7.5	100	F612KM475(1)050(2)
50	30	1.2	AG	4	9	13	10.0	30	F612AG125(1)050(2)
50	30	1.5	AG	4	9	13	10.0	30	F612AG155(1)050(2)
50	30	1.8	AG	4	9	13	10.0	30	F612AG185(1)050(2)
50	30	2.2	AG	4	9	13	10.0	30	F612AG225(1)050(2)
50	30	2.7	AK	5	11	13	10.0	30	F612AK275(1)050(2)
50	30	3.3	AK	5	11	13	10.0	30	F612AK335(1)050(2)
50	30	3.9	AK	5	11	13	10.0	30	F612AK395(1)050(2)
50	30	4.7	AP	6	12	13	10.0	30	F612AP475(1)050(2)
50	30	5.6	AP	6	12	13	10.0	30	F612AP565(1)050(2)
50	30	1.8	BB	4	10	18	15.0	3	F611BB185(1)050(2)
50	30	2.2	BC	5	11	18	15.0	3	F611BC225(1)050(2)
50	30	2.7	BC	5	11	18	15.0	3	F611BC275(1)050(2)
50	30	3.3	BE	5.5	12.5	18	15.0	3	F611BE335(1)050(2)
50	30	3.9	BE	5.5	12.5	18	15.0	3	F611BE395(1)050(2)
50	30	4.7	BK	7.5	13.5	18	15.0	3	F611BK475(1)050(2)
50	30	5.6	BK	7.5	13.5	18	15.0	3	F611BK565(1)050(2)
50	30	6.8	BP	8.5	14.5	18	15.0	3	F611BP685(1)050(2)
50	30	8.2	BP	8.5	14.5	18	15.0	3	F611BP825(1)050(2)
50	30	10.0	BS	10	16	18	15.0	3	F611BS106(1)050(2)
50	30	12.0	BY	11	19	18	15.0	3	F611BY126(1)050(2)
50	30	15.0	BY	11	19	18	15.0	3	F611BY156(1)050(2)
63	40	0.1	JF	2.5	6.5	7.2	5.0	160	F612JF104(1)063(2)
63	40	0.12	JF	2.5	6.5	7.2	5.0	160	F612JF124(1)063(2)
63	40	0.15	JF	2.5	6.5	7.2	5.0	160	F612JF154(1)063(2)
63	40	0.18	JF	2.5	6.5	7.2	5.0	160	F612JF184(1)063(2)
63	40	0.22	JF	2.5	6.5	7.2	5.0	160	F612JF224(1)063(2)
63	40	0.27	JG	3.5	7.5	7.2	5.0	160	F612JG274(1)063(2)
63	40	0.33	JG	3.5	7.5	7.2	5.0	160	F612JG334(1)063(2)
63	40	0.39	JG	3.5	7.5	7.2	5.0	160	F612JG394(1)063(2)
63	40	0.47	JG	3.5	7.5	7.2	5.0	160	F612JG474(1)063(2)
63	40	0.56	JM	4.5	9.5	7.2	5.0	160	F612JM564(1)063(2)
63	40	0.68	JM	4.5	9.5	7.2	5.0	160	F612JM684(1)063(2)
VDC	VAC	Cap Value (μF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/μs)	Part Number

(1) K= ±10%, M = ±20%, J = ±5% on request.

(2) Insert lead and packaging code. See table for available options.

Table 1 – Ratings & Part Number Reference cont'd

VDC	VAC	Cap Value (μF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/μs)	Part Number
				B	H	L			
63	40	0.82	JM	4.5	9.5	7.2	5.0	160	F612JM824(1)063(2)
63	40	1.0	JQ	5	10	7.2	5.0	160	F612JQ105(1)063(2)
63	40	1.2	JT	6	11	7.2	5.0	160	F612JT125(1)063(2)
63	40	1.5	JT	6	11	7.2	5.0	160	F612JT155(1)063(2)
63	40	0.33	KF	3	8	10	7.5	120	F612KF334(1)063(2)
63	40	0.39	KF	3	8	10	7.5	120	F612KF394(1)063(2)
63	40	0.47	KF	3	8	10	7.5	120	F612KF474(1)063(2)
63	40	0.56	KH	4	9	10	7.5	120	F612KH564(1)063(2)
63	40	0.68	KH	4	9	10	7.5	120	F612KH684(1)063(2)
63	40	0.82	KH	4	9	10	7.5	120	F612KH824(1)063(2)
63	40	1.0	KH	4	9	10	7.5	120	F612KH105(1)063(2)
63	40	1.2	KJ	5	10.5	10	7.5	120	F612KJ125(1)063(2)
63	40	1.5	KJ	5	10.5	10	7.5	120	F612KJ155(1)063(2)
63	40	1.8	KM	6	12	10.5	7.5	120	F612KM185(1)063(2)
63	40	2.2	KM	6	12	10.5	7.5	120	F612KM225(1)063(2)
63	40	2.7	KM	6	12	10.5	7.5	120	F612KM275(1)063(2)
63	40	3.3	KM	6	12	10.5	7.5	120	F612KM335(1)063(2)
63	40	1.0	AG	4	9	13	10.0	50	F612AG105(1)063(2)
63	40	1.2	AG	4	9	13	10.0	50	F612AG125(1)063(2)
63	40	1.5	AK	5	11	13	10.0	50	F612AK155(1)063(2)
63	40	1.8	AK	5	11	13	10.0	50	F612AK185(1)063(2)
63	40	2.2	AK	5	11	13	10.0	50	F612AK225(1)063(2)
63	40	2.7	AK	5	11	13	10.0	50	F612AK275(1)063(2)
63	40	3.3	AP	6	12	13	10.0	50	F612AP335(1)063(2)
63	40	3.9	AP	6	12	13	10.0	50	F612AP395(1)063(2)
63	40	1.2	BB	4	10	18	15.0	5	F611BB125(1)063(2)
63	40	1.5	BB	4	10	18	15.0	5	F611BB155(1)063(2)
63	40	1.8	BC	5	11	18	15.0	5	F611BC185(1)063(2)
63	40	2.2	BE	5.5	12.5	18	15.0	5	F611BE225(1)063(2)
63	40	2.7	BE	5.5	12.5	18	15.0	5	F611BE275(1)063(2)
63	40	3.3	BG	6	12	18	15.0	5	F611BG335(1)063(2)
63	40	3.9	BK	7.5	13.5	18	15.0	5	F611BK395(1)063(2)
63	40	4.7	BK	7.5	13.5	18	15.0	5	F611BK475(1)063(2)
63	40	5.6	BP	8.5	14.5	18	15.0	5	F611BP565(1)063(2)
63	40	6.8	BP	8.5	14.5	18	15.0	5	F611BP685(1)063(2)
63	40	8.2	BS	10	16	18	15.0	5	F611BS825(1)063(2)
63	40	10.0	BS	10	16	18	15.0	5	F611BS106(1)063(2)
63	40	12.0	BY	11	19	18	15.0	5	F611BY126(1)063(2)
63	40	4.7	DB	6	14.5	26	22.5	3	F611DB475(1)063(2)
63	40	5.6	DB	6	14.5	26	22.5	3	F611DB565(1)063(2)
63	40	6.8	DI	7	16	26	22.5	3	F611DI685(1)063(2)
63	40	8.2	DI	7	16	26	22.5	3	F611DI825(1)063(2)
63	40	10.0	DJ	8.5	17	26	22.5	3	F611DJ106(1)063(2)
63	40	12.0	DM	9	18.5	26	22.5	3	F611DM126(1)063(2)
63	40	15.0	DO	10	18.5	26	22.5	3	F611DO156(1)063(2)
63	40	18.0	DP	11	20	26	22.5	3	F611DP186(1)063(2)
63	40	22.0	DU	13	22	26	22.5	3	F611DU226(1)063(2)
63	40	27.0	DY	15.5	24.5	26	22.5	3	F611DY276(1)063(2)
63	40	33.0	DY	15.5	24.5	26	22.5	3	F611DY336(1)063(2)
63	40	18.0	FB	9	17	31.5	27.5	2	F611FB186(1)063(2)
63	40	22.0	FC	11	20	31.5	27.5	2	F611FC226(1)063(2)
63	40	27.0	FC	11	20	31.5	27.5	2	F611FC276(1)063(2)
63	40	33.0	FC	11	20	31.5	27.5	2	F611FC336(1)063(2)
63	40	39.0	FI	13	25	31.5	27.5	2	F611FI396(1)063(2)
63	40	47.0	FI	13	25	31.5	27.5	2	F611FI476(1)063(2)
63	40	56.0	FN	14	28	31.5	27.5	2	F611FN566(1)063(2)
63	40	68.0	FN	14	28	31.5	27.5	2	F611FN686(1)063(2)
63	40	82.0	FS	19	29	31.5	27.5	2	F611FS826(1)063(2)
63	40	100	FY	22	37	31.5	27.5	2	F611FY107(1)063(2)
63	40	120	FY	22	37	31.5	27.5	2	F611FY127(1)063(2)
VDC	VAC	Cap Value (μF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/μs)	Part Number

(1) K= ±10%, M = ±20%, J = ±5% on request.

(2) Insert lead and packaging code. See table for available options.

Table 1 – Ratings & Part Number Reference cont'd

VDC	VAC	Cap Value (μF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/μs)	Part Number
				B	H	L			
63	40	150	FY	22	37	31.5	27.5	2	F611FY157(1)063(2)
63	40	39.0	RB	11	22	41	37.5	1	F611RB396(1)063(2)
63	40	47.0	RB	11	22	41	37.5	1	F611RB476(1)063(2)
63	40	56.0	RF	13	24	41	37.5	1	F611RF566(1)063(2)
63	40	68.0	RF	13	24	41	37.5	1	F611RF686(1)063(2)
63	40	82.0	RH	15	26	41	37.5	1	F611RH826(1)063(2)
63	40	100	RC	16	28.5	41	37.5	1	F611RC107(1)063(2)
63	40	120	RD	19	32	41	37.5	1	F611RD127(1)063(2)
63	40	150	RD	19	32	41	37.5	1	F611RD157(1)063(2)
63	40	180	RP	21	38	41	37.5	1	F611RP187(1)063(2)
63	40	220	RO	24	44	41	37.5	1	F611RO227(1)063(2)
63	40	270	RO	24	44	41	37.5	1	F611RO277(1)063(2)
63	40	330	RU	30	45	41	37.5	1	F611RU337(1)063(2)
100	63	0.001	JF	2.5	6.5	7.2	5.0	200	F612JF102(1)100(2)
100	63	0.0012	JF	2.5	6.5	7.2	5.0	200	F612JF122(1)100(2)
100	63	0.0015	JF	2.5	6.5	7.2	5.0	200	F612JF152(1)100(2)
100	63	0.0018	JF	2.5	6.5	7.2	5.0	200	F612JF182(1)100(2)
100	63	0.0022	JF	2.5	6.5	7.2	5.0	200	F612JF222(1)100(2)
100	63	0.0027	JF	2.5	6.5	7.2	5.0	200	F612JF272(1)100(2)
100	63	0.0033	JF	2.5	6.5	7.2	5.0	200	F612JF332(1)100(2)
100	63	0.0039	JF	2.5	6.5	7.2	5.0	200	F612JF392(1)100(2)
100	63	0.0047	JF	2.5	6.5	7.2	5.0	200	F612JF472(1)100(2)
100	63	0.0056	JF	2.5	6.5	7.2	5.0	200	F612JF562(1)100(2)
100	63	0.0068	JF	2.5	6.5	7.2	5.0	200	F612JF682(1)100(2)
100	63	0.0082	JF	2.5	6.5	7.2	5.0	200	F612JF822(1)100(2)
100	63	0.01	JF	2.5	6.5	7.2	5.0	200	F612JF103(1)100(2)
100	63	0.012	JF	2.5	6.5	7.2	5.0	200	F612JF123(1)100(2)
100	63	0.015	JF	2.5	6.5	7.2	5.0	200	F612JF153(1)100(2)
100	63	0.018	JF	2.5	6.5	7.2	5.0	200	F612JF183(1)100(2)
100	63	0.022	JF	2.5	6.5	7.2	5.0	200	F612JF223(1)100(2)
100	63	0.027	JF	2.5	6.5	7.2	5.0	200	F612JF273(1)100(2)
100	63	0.033	JF	2.5	6.5	7.2	5.0	200	F612JF333(1)100(2)
100	63	0.039	JF	2.5	6.5	7.2	5.0	200	F612JF393(1)100(2)
100	63	0.047	JF	2.5	6.5	7.2	5.0	200	F612JF473(1)100(2)
100	63	0.056	JF	2.5	6.5	7.2	5.0	200	F612JF563(1)100(2)
100	63	0.068	JF	2.5	6.5	7.2	5.0	200	F612JF683(1)100(2)
100	63	0.082	JF	2.5	6.5	7.2	5.0	200	F612JF823(1)100(2)
100	63	0.1	JF	2.5	6.5	7.2	5.0	200	F612JF104(1)100(2)
100	63	0.12	JF	2.5	6.5	7.2	5.0	200	F612JF124(1)100(2)
100	63	0.15	JG	3.5	7.5	7.2	5.0	200	F612JG154(1)100(2)
100	63	0.18	JG	3.5	7.5	7.2	5.0	200	F612JG184(1)100(2)
100	63	0.22	JG	3.5	7.5	7.2	5.0	200	F612JG224(1)100(2)
100	63	0.27	JG	3.5	7.5	7.2	5.0	200	F612JG274(1)100(2)
100	63	0.33	JM	4.5	9.5	7.2	5.0	200	F612JM334(1)100(2)
100	63	0.39	JM	4.5	9.5	7.2	5.0	200	F612JM394(1)100(2)
100	63	0.47	JM	4.5	9.5	7.2	5.0	200	F612JM474(1)100(2)
100	63	0.56	JQ	5	10	7.2	5.0	200	F612JQ564(1)100(2)
100	63	0.68	JQ	5	10	7.2	5.0	200	F612JQ684(1)100(2)
100	63	0.82	JT	6	11	7.2	5.0	200	F612JT824(1)100(2)
100	63	1.0	JT	6	11	7.2	5.0	200	F612JT105(1)100(2)
100	63	0.068	KF	3	8	10	7.5	150	F612KF683(1)100(2)
100	63	0.082	KF	3	8	10	7.5	150	F612KF823(1)100(2)
100	63	0.1	KF	3	8	10	7.5	150	F612KF104(1)100(2)
100	63	0.12	KF	3	8	10	7.5	150	F612KF124(1)100(2)
100	63	0.15	KF	3	8	10	7.5	150	F612KF154(1)100(2)
100	63	0.18	KF	3	8	10	7.5	150	F612KF184(1)100(2)
100	63	0.22	KF	3	8	10	7.5	150	F612KF224(1)100(2)
100	63	0.27	KH	4	9	10	7.5	150	F612KH274(1)100(2)
100	63	0.33	KH	4	9	10	7.5	150	F612KH334(1)100(2)
100	63	0.39	KH	4	9	10	7.5	150	F612KH394(1)100(2)
VDC	VAC	Cap Value (μF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/μs)	Part Number

(1) K= ±10%, M = ±20%, J = ±5% on request.

(2) Insert lead and packaging code. See table for available options.

Table 1 – Ratings & Part Number Reference cont'd

VDC	VAC	Cap Value (µF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/µs)	Part Number
				B	H	L			
100	63	0.47	KH	4	9	10	7.5	150	F612KH474(1)100(2)
100	63	0.56	KH	4	9	10	7.5	150	F612KH564(1)100(2)
100	63	0.68	KH	4	9	10	7.5	150	F612KH684(1)100(2)
100	63	0.82	KJ	5	10.5	10	7.5	150	F612KJ824(1)100(2)
100	63	1.0	KJ	5	10.5	10	7.5	150	F612KJ105(1)100(2)
100	63	1.5	KM	6	12	10.5	7.5	150	F612KM155(1)100(2)
100	63	1.8	KM	6	12	10.5	7.5	150	F612KM185(1)100(2)
100	63	0.33	AG	4	9	13	10.0	75	F612AG334(1)100(2)
100	63	0.39	AG	4	9	13	10.0	75	F612AG394(1)100(2)
100	63	0.47	AG	4	9	13	10.0	75	F612AG474(1)100(2)
100	63	0.56	AG	4	9	13	10.0	75	F612AG564(1)100(2)
100	63	0.68	AG	4	9	13	10.0	75	F612AG684(1)100(2)
100	63	0.82	AG	4	9	13	10.0	75	F612AG824(1)100(2)
100	63	1.0	AK	5	11	13	10.0	75	F612AK105(1)100(2)
100	63	1.2	AK	5	11	13	10.0	75	F612AK125(1)100(2)
100	63	1.5	AK	5	11	13	10.0	75	F612AK155(1)100(2)
100	63	1.8	AP	6	12	13	10.0	75	F612AP185(1)100(2)
100	63	0.56	BB	4	10	18	15.0	8	F611BB564(1)100(2)
100	63	0.68	BB	4	10	18	15.0	8	F611BB684(1)100(2)
100	63	0.82	BB	4	10	18	15.0	8	F611BB824(1)100(2)
100	63	1.0	BB	4	10	18	15.0	8	F611BB105(1)100(2)
100	63	1.2	BC	5	11	18	15.0	8	F611BC125(1)100(2)
100	63	1.5	BC	5	11	18	15.0	8	F611BC155(1)100(2)
100	63	1.8	BE	5.5	12.5	18	15.0	8	F611BE185(1)100(2)
100	63	2.2	BG	6	12	18	15.0	8	F611BG225(1)100(2)
100	63	2.7	BK	7.5	13.5	18	15.0	8	F611BK275(1)100(2)
100	63	3.3	BK	7.5	13.5	18	15.0	8	F611BK335(1)100(2)
100	63	3.9	BP	8.5	14.5	18	15.0	8	F611BP395(1)100(2)
100	63	4.7	BP	8.5	14.5	18	15.0	8	F611BP475(1)100(2)
100	63	5.6	BS	10	16	18	15.0	8	F611BS565(1)100(2)
100	63	6.8	BY	11	19	18	15.0	8	F611BY685(1)100(2)
100	63	8.2	BY	11	19	18	15.0	8	F611BY825(1)100(2)
100	63	2.2	DB	6	14.5	26	22.5	5	F611DB225(1)100(2)
100	63	2.7	DB	6	14.5	26	22.5	5	F611DB275(1)100(2)
100	63	3.3	DB	6	14.5	26	22.5	5	F611DB335(1)100(2)
100	63	3.9	DB	6	14.5	26	22.5	5	F611DB395(1)100(2)
100	63	4.7	DI	7	16	26	22.5	5	F611DI475(1)100(2)
100	63	5.6	DI	7	16	26	22.5	5	F611DI565(1)100(2)
100	63	6.8	DH	8	16	26	22.5	5	F611DH685(1)100(2)
100	63	8.2	DJ	8.5	17	26	22.5	5	F611DJ825(1)100(2)
100	63	10.0	DM	9	18.5	26	22.5	5	F611DM106(1)100(2)
100	63	12.0	DO	10	18.5	26	22.5	5	F611DO126(1)100(2)
100	63	15.0	DP	11	20	26	22.5	5	F611DP156(1)100(2)
100	63	18.0	DU	13	22	26	22.5	5	F611DU186(1)100(2)
100	63	22.0	DY	15.5	24.5	26	22.5	5	F611DY226(1)100(2)
100	63	27.0	DY	15.5	24.5	26	22.5	5	F611DY276(1)100(2)
100	63	15.0	FB	9	17	31.5	27.5	3	F611FB156(1)100(2)
100	63	18.0	FC	11	20	31.5	27.5	3	F611FC186(1)100(2)
100	63	22.0	FC	11	20	31.5	27.5	3	F611FC226(1)100(2)
100	63	27.0	FI	13	25	31.5	27.5	3	F611FI276(1)100(2)
100	63	33.0	FI	13	25	31.5	27.5	3	F611FI336(1)100(2)
100	63	39.0	FN	14	28	31.5	27.5	3	F611FN396(1)100(2)
100	63	47.0	FN	14	28	31.5	27.5	3	F611FN476(1)100(2)
100	63	56.0	FR	17.5	28	31.5	27.5	3	F611FR566(1)100(2)
100	63	68.0	FS	19	29	31.5	27.5	3	F611FS686(1)100(2)
100	63	82.0	FY	22	37	31.5	27.5	3	F611FY826(1)100(2)
100	63	100	FY	22	37	31.5	27.5	3	F611FY107(1)100(2)
100	63	27.0	RB	11	22	41	37.5	2	F611RB276(1)100(2)
100	63	33.0	RB	11	22	41	37.5	2	F611RB336(1)100(2)
100	63	39.0	RF	13	24	41	37.5	2	F611RF396(1)100(2)
VDC	VAC	Cap Value (µF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/µs)	Part Number

(1) K= ±10%, M = ±20%, J = ±5% on request.

(2) Insert lead and packaging code. See table for available options.

Table 1 – Ratings & Part Number Reference cont'd

VDC	VAC	Cap Value (μF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/μs)	Part Number
				B	H	L			
100	63	47.0	RF	13	24	41	37.5	2	F611RF476(1)100(2)
100	63	56.0	RH	15	26	41	37.5	2	F611RH566(1)100(2)
100	63	68.0	RC	16	28.5	41	37.5	2	F611RC686(1)100(2)
100	63	82.0	RD	19	32	41	37.5	2	F611RD826(1)100(2)
100	63	100	RD	19	32	41	37.5	2	F611RD107(1)100(2)
100	63	120	RP	21	38	41	37.5	2	F611RP127(1)100(2)
100	63	150	RO	24	44	41	37.5	2	F611RO157(1)100(2)
100	63	180	RO	24	44	41	37.5	2	F611RO187(1)100(2)
100	63	220	RU	30	45	41	37.5	2	F611RU227(1)100(2)
160	90	0.18	AG	4	9	13	10.0	100	F612AG184(1)160(2)
160	90	0.22	AG	4	9	13	10.0	100	F612AG224(1)160(2)
160	90	0.27	AG	4	9	13	10.0	100	F612AG274(1)160(2)
160	90	0.33	AG	4	9	13	10.0	100	F612AG334(1)160(2)
160	90	0.39	AK	5	11	13	10.0	100	F612AK394(1)160(2)
160	90	0.47	AK	5	11	13	10.0	100	F612AK474(1)160(2)
160	90	0.56	AK	5	11	13	10.0	100	F612AK564(1)160(2)
160	90	0.68	AP	6	12	13	10.0	100	F612AP684(1)160(2)
160	90	0.82	AP	6	12	13	10.0	100	F612AP824(1)160(2)
160	90	0.33	BB	4	10	18	15.0	10	F611BB334(1)160(2)
160	90	0.39	BB	4	10	18	15.0	10	F611BB394(1)160(2)
160	90	0.47	BC	5	11	18	15.0	10	F611BC474(1)160(2)
160	90	0.56	BC	5	11	18	15.0	10	F611BC564(1)160(2)
160	90	0.68	BC	5	11	18	15.0	10	F611BC684(1)160(2)
160	90	0.82	BE	5.5	12.5	18	15.0	10	F611BE824(1)160(2)
160	90	1.0	BG	6	12	18	15.0	10	F611BG105(1)160(2)
160	90	1.2	BK	7.5	13.5	18	15.0	10	F611BK125(1)160(2)
160	90	1.5	BK	7.5	13.5	18	15.0	10	F611BK155(1)160(2)
160	90	1.8	BP	8.5	14.5	18	15.0	10	F611BP185(1)160(2)
160	90	2.2	BS	10	16	18	15.0	10	F611BS225(1)160(2)
160	90	2.7	BY	11	19	18	15.0	10	F611BY275(1)160(2)
160	90	3.3	BY	11	19	18	15.0	10	F611BY335(1)160(2)
160	90	3.9	BY	11	19	18	15.0	10	F611BY395(1)160(2)
160	90	1.2	DB	6	14.5	26	22.5	6	F611DB125(1)160(2)
160	90	1.5	DB	6	14.5	26	22.5	6	F611DB155(1)160(2)
160	90	1.8	DB	6	14.5	26	22.5	6	F611DB185(1)160(2)
160	90	2.2	DI	7	16	26	22.5	6	F611DI225(1)160(2)
160	90	2.7	DI	7	16	26	22.5	6	F611DI275(1)160(2)
160	90	3.3	DJ	8.5	17	26	22.5	6	F611DJ335(1)160(2)
160	90	3.9	DM	9	18.5	26	22.5	6	F611DM395(1)160(2)
160	90	4.7	DO	10	18.5	26	22.5	6	F611DO475(1)160(2)
160	90	5.6	DP	11	20	26	22.5	6	F611DP565(1)160(2)
160	90	6.8	DU	13	22	26	22.5	6	F611DU685(1)160(2)
160	90	8.2	DU	13	22	26	22.5	6	F611DU825(1)160(2)
160	90	10.0	DY	15.5	24.5	26	22.5	6	F611DY106(1)160(2)
160	90	12.0	DY	15.5	24.5	26	22.5	6	F611DY126(1)160(2)
160	90	5.6	FB	9	17	31.5	27.5	4	F611FB565(1)160(2)
160	90	6.8	FB	9	17	31.5	27.5	4	F611FB685(1)160(2)
160	90	8.2	FB	9	17	31.5	27.5	4	F611FB825(1)160(2)
160	90	10.0	FB	9	17	31.5	27.5	4	F611FB106(1)160(2)
160	90	12.0	FB	9	17	31.5	27.5	4	F611FB126(1)160(2)
160	90	15.0	FC	11	20	31.5	27.5	4	F611FC156(1)160(2)
160	90	18.0	FC	11	20	31.5	27.5	4	F611FC186(1)160(2)
160	90	22.0	FI	13	25	31.5	27.5	4	F611FI226(1)160(2)
160	90	27.0	FI	13	25	31.5	27.5	4	F611FI276(1)160(2)
160	90	33.0	FN	14	28	31.5	27.5	4	F611FN336(1)160(2)
160	90	39.0	FR	17.5	28	31.5	27.5	4	F611FR396(1)160(2)
160	90	47.0	FS	19	29	31.5	27.5	4	F611FS476(1)160(2)
160	90	56.0	FY	22	37	31.5	27.5	4	F611FY566(1)160(2)
160	90	68.0	FY	22	37	31.5	27.5	4	F611FY686(1)160(2)
160	90	15.0	RB	11	22	41	37.5	3	F611RB156(1)160(2)
VDC	VAC	Cap Value (μF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/μs)	Part Number

(1) K= ±10%, M = ±20%, J = ±5% on request.

(2) Insert lead and packaging code. See table for available options.

Table 1 – Ratings & Part Number Reference cont'd

VDC	VAC	Cap Value (μF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/μs)	Part Number
				B	H	L			
160	90	18.0	RB	11	22	41	37.5	3	F611RB186(1)160(2)
160	90	22.0	RB	11	22	41	37.5	3	F611RB226(1)160(2)
160	90	27.0	RF	13	24	41	37.5	3	F611RF276(1)160(2)
160	90	33.0	RF	13	24	41	37.5	3	F611RF336(1)160(2)
160	90	39.0	RH	15	26	41	37.5	3	F611RH396(1)160(2)
160	90	47.0	RH	15	26	41	37.5	3	F611RH476(1)160(2)
160	90	56.0	RC	16	28.5	41	37.5	3	F611RC566(1)160(2)
160	90	68.0	RD	19	32	41	37.5	3	F611RD686(1)160(2)
160	90	82.0	RP	21	38	41	37.5	3	F611RP826(1)160(2)
160	90	100	RP	21	38	41	37.5	3	F611RP107(1)160(2)
160	90	120	RO	24	44	41	37.5	3	F611RO127(1)160(2)
160	90	150	RU	30	45	41	37.5	3	F611RU157(1)160(2)
160	90	180	RU	30	45	41	37.5	3	F611RU187(1)160(2)
250	160	0.0068	JF	2.5	6.5	7.2	5.0	250	F612JF682(1)250(2)
250	160	0.0082	JF	2.5	6.5	7.2	5.0	250	F612JF822(1)250(2)
250	160	0.01	JF	2.5	6.5	7.2	5.0	250	F612JF103(1)250(2)
250	160	0.012	JF	2.5	6.5	7.2	5.0	250	F612JF123(1)250(2)
250	160	0.015	JF	2.5	6.5	7.2	5.0	250	F612JF153(1)250(2)
250	160	0.018	JF	2.5	6.5	7.2	5.0	250	F612JF183(1)250(2)
250	160	0.022	JG	3.5	7.5	7.2	5.0	250	F612JG223(1)250(2)
250	160	0.027	JG	3.5	7.5	7.2	5.0	250	F612JG273(1)250(2)
250	160	0.033	JG	3.5	7.5	7.2	5.0	250	F612JG333(1)250(2)
250	160	0.039	JG	3.5	7.5	7.2	5.0	250	F612JG393(1)250(2)
250	160	0.047	JM	4.5	9.5	7.2	5.0	250	F612JM473(1)250(2)
250	160	0.056	JM	4.5	9.5	7.2	5.0	250	F612JM563(1)250(2)
250	160	0.068	JM	4.5	9.5	7.2	5.0	250	F612JM683(1)250(2)
250	160	0.082	JQ	5	10	7.2	5.0	250	F612JQ823(1)250(2)
250	160	0.1	JQ	5	10	7.2	5.0	250	F612JQ104(1)250(2)
250	160	0.12	JT	6	11	7.2	5.0	250	F612JT124(1)250(2)
250	160	0.15	JT	6	11	7.2	5.0	250	F612JT154(1)250(2)
250	140	0.022	JF	2.5	6.5	7.2	5.0	130	F612JF223(1)250(2)
250	140	0.027	JF	2.5	6.5	7.2	5.0	130	F612JF273(1)250(2)
250	140	0.047	JG	3.5	7.5	7.2	5.0	130	F612JG473(1)250(2)
250	140	0.056	JG	3.5	7.5	7.2	5.0	130	F612JG563(1)250(2)
250	140	0.068	JG	3.5	7.5	7.2	5.0	130	F612JG683(1)250(2)
250	140	0.082	JM	4.5	9.5	7.2	5.0	130	F612JM823(1)250(2)
250	140	0.1	JM	4.5	9.5	7.2	5.0	130	F612JM104(1)250(2)
250	140	0.12	JM	4.5	9.5	7.2	5.0	130	F612JM124(1)250(2)
250	140	0.15	JQ	5	10	7.2	5.0	130	F612JQ154(1)250(2)
250	140	0.18	JT	6	11	7.2	5.0	130	F612JT184(1)250(2)
250	140	0.22	JT	6	11	7.2	5.0	130	F612JT224(1)250(2)
250	160	0.022	KF	3	8	10	7.5	200	F612KF223(1)250(2)
250	160	0.027	KF	3	8	10	7.5	200	F612KF273(1)250(2)
250	160	0.033	KF	3	8	10	7.5	200	F612KF333(1)250(2)
250	160	0.039	KF	3	8	10	7.5	200	F612KF393(1)250(2)
250	160	0.047	KF	3	8	10	7.5	200	F612KF473(1)250(2)
250	160	0.056	KF	3	8	10	7.5	200	F612KF563(1)250(2)
250	160	0.068	KF	3	8	10	7.5	200	F612KF683(1)250(2)
250	160	0.082	KH	4	9	10	7.5	200	F612KH823(1)250(2)
250	160	0.1	KH	4	9	10	7.5	200	F612KH104(1)250(2)
250	160	0.12	KH	4	9	10	7.5	200	F612KH124(1)250(2)
250	160	0.15	KH	4	9	10	7.5	200	F612KH154(1)250(2)
250	160	0.18	KJ	5	10.5	10	7.5	200	F612KJ184(1)250(2)
250	160	0.22	KJ	5	10.5	10	7.5	200	F612KJ224(1)250(2)
250	160	0.27	KM	6	12	10.5	7.5	200	F612KM274(1)250(2)
250	160	0.33	KM	6	12	10.5	7.5	200	F612KM334(1)250(2)
250	160	0.39	KM	6	12	10.5	7.5	200	F612KM394(1)250(2)
250	160	0.1	AG	4	9	13	10.0	20	F611AG104(1)250(2)
250	160	0.12	AG	4	9	13	10.0	20	F611AG124(1)250(2)
250	160	0.15	AG	4	9	13	10.0	20	F611AG154(1)250(2)
VDC	VAC	Cap Value (μF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/μs)	Part Number

(1) K= ±10%, M = ±20%, J = ±5% on request.

(2) Insert lead and packaging code. See table for available options.

Table 1 – Ratings & Part Number Reference cont'd

VDC	VAC	Cap Value (μF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/μs)	Part Number
				B	H	L			
250	160	0.18	AK	5	11	13	10.0	20	F611AK184(1)250(2)
250	160	0.22	AK	5	11	13	10.0	20	F611AK224(1)250(2)
250	160	0.27	AK	5	11	13	10.0	20	F611AK274(1)250(2)
250	160	0.33	AP	6	12	13	10.0	20	F611AP334(1)250(2)
250	160	0.39	AP	6	12	13	10.0	20	F611AP394(1)250(2)
250	160	0.47	AP	6	12	13	10.0	20	F611AP474(1)250(2)
250	160	0.18	BB	4	10	18	15.0	12	F611BB184(1)250(2)
250	160	0.22	BB	4	10	18	15.0	12	F611BB224(1)250(2)
250	160	0.27	BB	4	10	18	15.0	12	F611BB274(1)250(2)
250	160	0.33	BC	5	11	18	15.0	12	F611BC334(1)250(2)
250	160	0.39	BC	5	11	18	15.0	12	F611BC394(1)250(2)
250	160	0.47	BE	5.5	12.5	18	15.0	12	F611BE474(1)250(2)
250	160	0.56	BG	6	12	18	15.0	12	F611BG564(1)250(2)
250	160	0.68	BK	7.5	13.5	18	15.0	12	F611BK684(1)250(2)
250	160	0.82	BK	7.5	13.5	18	15.0	12	F611BK824(1)250(2)
250	160	1.0	BK	7.5	13.5	18	15.0	12	F611BK105(1)250(2)
250	160	1.2	BP	8.5	14.5	18	15.0	12	F611BP125(1)250(2)
250	160	1.5	BS	10	16	18	15.0	12	F611BS155(1)250(2)
250	160	1.8	BY	11	19	18	15.0	12	F611BY185(1)250(2)
250	160	2.2	BY	11	19	18	15.0	12	F611BY225(1)250(2)
250	160	0.82	DB	6	14.5	26	22.5	8	F611DB824(1)250(2)
250	160	1.0	DB	6	14.5	26	22.5	8	F611DB105(1)250(2)
250	160	1.2	DI	7	16	26	22.5	8	F611DI125(1)250(2)
250	160	1.5	DI	7	16	26	22.5	8	F611DI155(1)250(2)
250	160	1.8	DH	8	16	26	22.5	8	F611DH185(1)250(2)
250	160	2.2	DJ	8.5	17	26	22.5	8	F611DJ225(1)250(2)
250	160	2.7	DO	10	18.5	26	22.5	8	F611DO275(1)250(2)
250	160	3.3	DP	11	20	26	22.5	8	F611DP335(1)250(2)
250	160	3.9	DU	13	22	26	22.5	8	F611DU395(1)250(2)
250	160	4.7	DU	13	22	26	22.5	8	F611DU475(1)250(2)
250	160	5.6	DY	15.5	24.5	26	22.5	8	F611DY565(1)250(2)
250	160	6.8	DY	15.5	24.5	26	22.5	8	F611DY685(1)250(2)
250	160	2.2	FB	9	17	31.5	27.5	5	F611FB225(1)250(2)
250	160	2.7	FB	9	17	31.5	27.5	5	F611FB275(1)250(2)
250	160	3.3	FB	9	17	31.5	27.5	5	F611FB335(1)250(2)
250	160	3.9	FB	9	17	31.5	27.5	5	F611FB395(1)250(2)
250	160	4.7	FB	9	17	31.5	27.5	5	F611FB475(1)250(2)
250	160	5.6	FC	11	20	31.5	27.5	5	F611FC565(1)250(2)
250	160	6.8	FC	11	20	31.5	27.5	5	F611FC685(1)250(2)
250	160	8.2	FI	13	25	31.5	27.5	5	F611FI825(1)250(2)
250	160	10.0	FI	13	25	31.5	27.5	5	F611FI106(1)250(2)
250	160	12.0	FI	13	25	31.5	27.5	5	F611FI126(1)250(2)
250	160	15.0	FN	14	28	31.5	27.5	5	F611FN156(1)250(2)
250	160	18.0	FR	17.5	28	31.5	27.5	5	F611FR186(1)250(2)
250	160	22.0	FS	19	29	31.5	27.5	5	F611FS226(1)250(2)
250	160	27.0	FY	22	37	31.5	27.5	5	F611FY276(1)250(2)
250	160	33.0	FY	22	37	31.5	27.5	5	F611FY336(1)250(2)
250	160	39.0	FY	22	37	31.5	27.5	5	F611FY396(1)250(2)
250	160	5.6	RB	11	22	41	37.5	4	F611RB565(1)250(2)
250	160	6.8	RB	11	22	41	37.5	4	F611RB685(1)250(2)
250	160	8.2	RB	11	22	41	37.5	4	F611RB825(1)250(2)
250	160	10.0	RB	11	22	41	37.5	4	F611RB106(1)250(2)
250	160	12.0	RB	11	22	41	37.5	4	F611RB126(1)250(2)
250	160	15.0	RF	13	24	41	37.5	4	F611RF156(1)250(2)
250	160	18.0	RH	15	26	41	37.5	4	F611RH186(1)250(2)
250	160	22.0	RH	15	26	41	37.5	4	F611RH226(1)250(2)
250	160	27.0	RC	16	28.5	41	37.5	4	F611RC276(1)250(2)
250	160	33.0	RD	19	32	41	37.5	4	F611RD336(1)250(2)
250	160	39.0	RP	21	38	41	37.5	4	F611RP396(1)250(2)
250	160	47.0	RP	21	38	41	37.5	4	F611RP476(1)250(2)
VDC	VAC	Cap Value (μF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/μs)	Part Number

(1) K= ±10%, M = ±20%, J = ±5% on request.

(2) Insert lead and packaging code. See table for available options.

Table 1 – Ratings & Part Number Reference cont'd

VDC	VAC	Cap Value (µF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/µs)	Part Number
				B	H	L			
250	160	56.0	RO	24	44	41	37.5	4	F611RO566(1)250(2)
250	160	68.0	RO	24	44	41	37.5	4	F611RO686(1)250(2)
250	160	82.0	RU	30	45	41	37.5	4	F611RU826(1)250(2)
400	200	0.001	JF	2.5	6.5	7.2	5.0	400	F612JF102(1)400(2)
400	200	0.0012	JF	2.5	6.5	7.2	5.0	400	F612JF122(1)400(2)
400	200	0.0015	JF	2.5	6.5	7.2	5.0	400	F612JF152(1)400(2)
400	200	0.0018	JF	2.5	6.5	7.2	5.0	400	F612JF182(1)400(2)
400	200	0.0022	JF	2.5	6.5	7.2	5.0	400	F612JF222(1)400(2)
400	200	0.0027	JF	2.5	6.5	7.2	5.0	400	F612JF272(1)400(2)
400	200	0.0033	JF	2.5	6.5	7.2	5.0	400	F612JF332(1)400(2)
400	200	0.0039	JF	2.5	6.5	7.2	5.0	400	F612JF392(1)400(2)
400	200	0.0047	JF	2.5	6.5	7.2	5.0	400	F612JF472(1)400(2)
400	200	0.0056	JG	3.5	7.5	7.2	5.0	400	F612JG562(1)400(2)
400	200	0.0068	JG	3.5	7.5	7.2	5.0	400	F612JG682(1)400(2)
400	200	0.082	JG	3.5	7.5	7.2	5.0	400	F612JG823(1)400(2)
400	200	0.01	JG	3.5	7.5	7.2	5.0	400	F612JG103(1)400(2)
400	200	0.012	JG	3.5	7.5	7.2	5.0	400	F612JG123(1)400(2)
400	200	0.015	JM	4.5	9.5	7.2	5.0	400	F612JM153(1)400(2)
400	200	0.018	JM	4.5	9.5	7.2	5.0	400	F612JM183(1)400(2)
400	200	0.022	JM	4.5	9.5	7.2	5.0	400	F612JM223(1)400(2)
400	200	0.027	JQ	5	10	7.2	5.0	400	F612JQ273(1)400(2)
400	200	0.033	JQ	5	10	7.2	5.0	400	F612JQ333(1)400(2)
400	200	0.039	JT	6	11	7.2	5.0	400	F612JT393(1)400(2)
400	200	0.047	JT	6	11	7.2	5.0	400	F612JT473(1)400(2)
400	200	0.056	JT	6	11	7.2	5.0	400	F612JT563(1)400(2)
400	160	0.0068	JF	2.5	6.5	7.2	5.0	200	F612JF682(1)400(2)
400	160	0.0082	JF	2.5	6.5	7.2	5.0	200	F612JF822(1)400(2)
400	160	0.015	JG	3.5	7.5	7.2	5.0	200	F612JG153(1)400(2)
400	160	0.018	JG	3.5	7.5	7.2	5.0	200	F612JG183(1)400(2)
400	160	0.033	JM	4.5	9.5	7.2	5.0	200	F612JM333(1)400(2)
400	160	0.039	JM	4.5	9.5	7.2	5.0	200	F612JM393(1)400(2)
400	160	0.047	JQ	5	10	7.2	5.0	200	F612JQ473(1)400(2)
400	160	0.068	JT	6	11	7.2	5.0	200	F612JT683(1)400(2)
400	200	0.0068	KF	3	8	10	7.5	275	F612KF682(1)400(2)
400	200	0.0082	KF	3	8	10	7.5	275	F612KF822(1)400(2)
400	200	0.01	KF	3	8	10	7.5	275	F612KF103(1)400(2)
400	200	0.012	KF	3	8	10	7.5	275	F612KF123(1)400(2)
400	200	0.015	KF	3	8	10	7.5	275	F612KF153(1)400(2)
400	200	0.018	KF	3	8	10	7.5	275	F612KF183(1)400(2)
400	200	0.022	KF	3	8	10	7.5	275	F612KF223(1)400(2)
400	200	0.027	KF	3	8	10	7.5	275	F612KF273(1)400(2)
400	200	0.033	KH	4	9	10	7.5	275	F612KH333(1)400(2)
400	200	0.039	KH	4	9	10	7.5	275	F612KH393(1)400(2)
400	200	0.047	KH	4	9	10	7.5	275	F612KH473(1)400(2)
400	200	0.056	KH	4	9	10	7.5	275	F612KH563(1)400(2)
400	200	0.068	KJ	5	10.5	10	7.5	275	F612KJ683(1)400(2)
400	200	0.082	KJ	5	10.5	10	7.5	275	F612KJ823(1)400(2)
400	200	0.1	KM	6	12	10.5	7.5	275	F612KM104(1)400(2)
400	200	0.12	KM	6	12	10.5	7.5	275	F612KM124(1)400(2)
400	200	0.15	KM	6	12	10.5	7.5	275	F612KM154(1)400(2)
400	200	0.033	AG	4	9	13	10.0	30	F611AG333(1)400(2)
400	200	0.039	AG	4	9	13	10.0	30	F611AG393(1)400(2)
400	200	0.047	AG	4	9	13	10.0	30	F611AG473(1)400(2)
400	200	0.056	AG	4	9	13	10.0	30	F611AG563(1)400(2)
400	200	0.068	AG	4	9	13	10.0	30	F611AG683(1)400(2)
400	200	0.082	AG	4	9	13	10.0	30	F611AG823(1)400(2)
400	200	0.1	AK	5	11	13	10.0	30	F611AK104(1)400(2)
400	200	0.12	AK	5	11	13	10.0	30	F611AK124(1)400(2)
400	200	0.15	AK	5	11	13	10.0	30	F611AK154(1)400(2)
400	200	0.18	AP	6	12	13	10.0	30	F611AP184(1)400(2)
VDC	VAC	Cap Value (µF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/µs)	Part Number

(1) K= ±10%, M = ±20%, J = ±5% on request.

(2) Insert lead and packaging code. See table for available options.

Table 1 – Ratings & Part Number Reference cont'd

VDC	VAC	Cap Value (μF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/μs)	Part Number
				B	H	L			
400	200	0.22	AP	6	12	13	10.0	30	F611AP224(1)400(2)
400	200	0.056	BB	4	10	18	15.0	20	F611BB563(1)400(2)
400	200	0.068	BB	4	10	18	15.0	20	F611BB683(1)400(2)
400	200	0.082	BB	4	10	18	15.0	20	F611BB823(1)400(2)
400	200	0.1	BB	4	10	18	15.0	20	F611BB104(1)400(2)
400	200	0.12	BB	4	10	18	15.0	20	F611BB124(1)400(2)
400	200	0.15	BB	4	10	18	15.0	20	F611BB154(1)400(2)
400	200	0.18	BC	5	11	18	15.0	20	F611BC184(1)400(2)
400	200	0.22	BC	5	11	18	15.0	20	F611BC224(1)400(2)
400	200	0.27	BE	5.5	12.5	18	15.0	20	F611BE274(1)400(2)
400	200	0.33	BG	6	12	18	15.0	20	F611BG334(1)400(2)
400	200	0.39	BK	7.5	13.5	18	15.0	20	F611BK394(1)400(2)
400	200	0.47	BK	7.5	13.5	18	15.0	20	F611BK474(1)400(2)
400	200	0.56	BK	7.5	13.5	18	15.0	20	F611BK564(1)400(2)
400	200	0.68	BP	8.5	14.5	18	15.0	20	F611BP684(1)400(2)
400	200	0.82	BS	10	16	18	15.0	20	F611BS824(1)400(2)
400	200	1.0	BY	11	19	18	15.0	20	F611BY105(1)400(2)
400	200	1.2	BY	11	19	18	15.0	20	F611BY125(1)400(2)
400	200	1.5	BY	11	19	18	15.0	20	F611BY155(1)400(2)
400	200	0.27	DB	6	14.5	26	22.5	10	F611DB274(1)400(2)
400	200	0.33	DB	6	14.5	26	22.5	10	F611DB334(1)400(2)
400	200	0.39	DB	6	14.5	26	22.5	10	F611DB394(1)400(2)
400	200	0.47	DB	6	14.5	26	22.5	10	F611DB474(1)400(2)
400	200	0.56	DB	6	14.5	26	22.5	10	F611DB564(1)400(2)
400	200	0.68	DB	6	14.5	26	22.5	10	F611DB684(1)400(2)
400	200	0.82	DI	7	16	26	22.5	10	F611DI824(1)400(2)
400	200	1.0	DI	7	16	26	22.5	10	F611DI105(1)400(2)
400	200	1.2	DJ	8.5	17	26	22.5	10	F611DJ125(1)400(2)
400	200	1.5	DM	9	18.5	26	22.5	10	F611DM155(1)400(2)
400	200	1.8	DO	10	18.5	26	22.5	10	F611DO185(1)400(2)
400	200	2.2	DP	11	20	26	22.5	10	F611DP225(1)400(2)
400	200	2.7	DU	13	22	26	22.5	10	F611DU275(1)400(2)
400	200	3.3	DU	13	22	26	22.5	10	F611DU335(1)400(2)
400	200	3.9	DY	15.5	24.5	26	22.5	10	F611DY395(1)400(2)
400	200	4.7	DY	15.5	24.5	26	22.5	10	F611DY475(1)400(2)
400	200	0.82	FB	9	17	31.5	27.5	8.5	F611FB824(1)400(2)
400	200	1.0	FB	9	17	31.5	27.5	8.5	F611FB105(1)400(2)
400	200	1.2	FB	9	17	31.5	27.5	8.5	F611FB125(1)400(2)
400	200	1.5	FB	9	17	31.5	27.5	8.5	F611FB155(1)400(2)
400	200	1.8	FB	9	17	31.5	27.5	8.5	F611FB185(1)400(2)
400	200	2.2	FC	11	20	31.5	27.5	8.5	F611FC225(1)400(2)
400	200	2.7	FC	11	20	31.5	27.5	8.5	F611FC275(1)400(2)
400	200	3.3	FI	13	25	31.5	27.5	8.5	F611FI335(1)400(2)
400	200	3.9	FI	13	25	31.5	27.5	8.5	F611FI395(1)400(2)
400	200	4.7	FI	13	25	31.5	27.5	8.5	F611FI475(1)400(2)
400	200	5.6	FN	14	28	31.5	27.5	8.5	F611FN565(1)400(2)
400	200	6.8	FR	17.5	28	31.5	27.5	8.5	F611FR685(1)400(2)
400	200	8.2	FR	17.5	28	31.5	27.5	8.5	F611FR825(1)400(2)
400	200	10.0	FS	19	29	31.5	27.5	8.5	F611FS106(1)400(2)
400	200	12.0	FY	22	37	31.5	27.5	8.5	F611FY126(1)400(2)
400	200	15.0	FY	22	37	31.5	27.5	8.5	F611FY156(1)400(2)
400	200	2.2	RB	11	22	41	37.5	6	F611RB225(1)400(2)
400	200	2.7	RB	11	22	41	37.5	6	F611RB275(1)400(2)
400	200	3.3	RB	11	22	41	37.5	6	F611RB335(1)400(2)
400	200	3.9	RB	11	22	41	37.5	6	F611RB395(1)400(2)
400	200	4.7	RB	11	22	41	37.5	6	F611RB475(1)400(2)
400	200	5.6	RF	13	24	41	37.5	6	F611RF565(1)400(2)
400	200	6.8	RF	13	24	41	37.5	6	F611RF685(1)400(2)
400	200	8.2	RH	15	26	41	37.5	6	F611RH825(1)400(2)
400	200	10.0	RC	16	28.5	41	37.5	6	F611RC106(1)400(2)
VDC	VAC	Cap Value (μF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/μs)	Part Number

(1) K= ±10%, M = ±20%, J = ±5% on request.

(2) Insert lead and packaging code. See table for available options.

Table 1 – Ratings & Part Number Reference cont'd

VDC	VAC	Cap Value (μF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/μs)	Part Number
				B	H	L			
400	200	12.0	RD	19	32	41	37.5	6	F611RD126(1)400(2)
400	200	15.0	RP	21	38	41	37.5	6	F611RP156(1)400(2)
400	200	18.0	RP	21	38	41	37.5	6	F611RP186(1)400(2)
400	200	22.0	RO	24	44	41	37.5	6	F611RO226(1)400(2)
400	200	27.0	RO	24	44	41	37.5	6	F611RO276(1)400(2)
400	200	33.0	RU	30	45	41	37.5	6	F611RU336(1)400(2)
630	220	0.0012	JF	2.5	6.5	7.2	5.0	80	F611JF122(1)630(2)
630	220	0.0015	JF	2.5	6.5	7.2	5.0	80	F611JF152(1)630(2)
630	220	0.0018	JF	2.5	6.5	7.2	5.0	80	F611JF182(1)630(2)
630	220	0.0022	JF	2.5	6.5	7.2	5.0	80	F611JF222(1)630(2)
630	220	0.0027	JF	2.5	6.5	7.2	5.0	80	F611JF272(1)630(2)
630	220	0.0033	JF	2.5	6.5	7.2	5.0	80	F611JF332(1)630(2)
630	220	0.0039	JF	2.5	6.5	7.2	5.0	80	F611JF392(1)630(2)
630	220	0.0047	JG	3.5	7.5	7.2	5.0	80	F611JG472(1)630(2)
630	220	0.0056	JG	3.5	7.5	7.2	5.0	80	F611JG562(1)630(2)
630	220	0.0068	JG	3.5	7.5	7.2	5.0	80	F611JG682(1)630(2)
630	220	0.0082	JG	3.5	7.5	7.2	5.0	80	F611JG822(1)630(2)
630	220	0.01	JG	3.5	7.5	7.2	5.0	80	F611JG103(1)630(2)
630	220	0.012	JM	4.5	9.5	7.2	5.0	80	F611JM123(1)630(2)
630	220	0.015	JM	4.5	9.5	7.2	5.0	80	F611JM153(1)630(2)
630	220	0.018	JM	4.5	9.5	7.2	5.0	80	F611JM183(1)630(2)
630	220	0.022	JQ	5	10	7.2	5.0	80	F611JQ223(1)630(2)
630	220	0.027	JT	6	11	7.2	5.0	80	F611JT273(1)630(2)
630	220	0.033	JT	6	11	7.2	5.0	80	F611JT333(1)630(2)
630	220	0.039	JU	7.2	13	7.2	5.0	80	F611JU393(1)630(2)
630	220	0.047	JU	7.2	13	7.2	5.0	80	F611JU473(1)630(2)
630	220	0.0018	KE	2.5	6	10	7.5	60	F611KE182(1)630(2)
630	220	0.0022	KE	2.5	6	10	7.5	60	F611KE222(1)630(2)
630	220	0.0027	KE	2.5	6	10	7.5	60	F611KE272(1)630(2)
630	220	0.0033	KE	2.5	6	10	7.5	60	F611KE332(1)630(2)
630	220	0.0039	KE	2.5	6	10	7.5	60	F611KE392(1)630(2)
630	220	0.0047	KE	2.5	6	10	7.5	60	F611KE472(1)630(2)
630	220	0.0056	KF	3	8	10	7.5	60	F611KF562(1)630(2)
630	220	0.0068	KF	3	8	10	7.5	60	F611KF682(1)630(2)
630	220	0.0082	KF	3	8	10	7.5	60	F611KF822(1)630(2)
630	220	0.01	KF	3	8	10	7.5	60	F611KF103(1)630(2)
630	220	0.012	KG	4	8	10	7.5	60	F611KG123(1)630(2)
630	220	0.015	KG	4	8	10	7.5	60	F611KG153(1)630(2)
630	220	0.018	KG	4	8	10	7.5	60	F611KG183(1)630(2)
630	220	0.022	KJ	5	10.5	10	7.5	60	F611KJ223(1)630(2)
630	220	0.027	KJ	5	10.5	10	7.5	60	F611KJ273(1)630(2)
630	220	0.033	KJ	5	10.5	10	7.5	60	F611KJ333(1)630(2)
630	220	0.039	KJ	5	10.5	10	7.5	60	F611KJ393(1)630(2)
630	220	0.047	KM	6	12	10.5	7.5	60	F611KM473(1)630(2)
630	220	0.056	KM	6	12	10.5	7.5	60	F611KM563(1)630(2)
630	220	0.068	KM	6	12	10.5	7.5	60	F611KM683(1)630(2)
630	220	0.012	AG	4	9	13	10.0	40	F611AG123(1)630(2)
630	220	0.015	AG	4	9	13	10.0	40	F611AG153(1)630(2)
630	220	0.018	AG	4	9	13	10.0	40	F611AG183(1)630(2)
630	220	0.022	AG	4	9	13	10.0	40	F611AG223(1)630(2)
630	220	0.027	AG	4	9	13	10.0	40	F611AG273(1)630(2)
630	220	0.033	AK	5	11	13	10.0	40	F611AK333(1)630(2)
630	220	0.039	AK	5	11	13	10.0	40	F611AK393(1)630(2)
630	220	0.047	AK	5	11	13	10.0	40	F611AK473(1)630(2)
630	220	0.056	AP	6	12	13	10.0	40	F611AP563(1)630(2)
630	220	0.068	AP	6	12	13	10.0	40	F611AP683(1)630(2)
630	220	0.082	AP	6	12	13	10.0	40	F611AP823(1)630(2)
630	220	0.022	BB	4	10	18	15.0	25	F611BB223(1)630(2)
630	220	0.027	BB	4	10	18	15.0	25	F611BB273(1)630(2)
630	220	0.033	BB	4	10	18	15.0	25	F611BB333(1)630(2)
VDC	VAC	Cap Value (μF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/μs)	Part Number

(1) K= ±10%, M = ±20%, J = ±5% on request.

(2) Insert lead and packaging code. See table for available options.

Table 1 – Ratings & Part Number Reference cont'd

VDC	VAC	Cap Value (μF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/μs)	Part Number
				B	H	L			
630	220	0.039	BB	4	10	18	15.0	25	F611BB393(1)630(2)
630	220	0.047	BB	4	10	18	15.0	25	F611BB473(1)630(2)
630	220	0.056	BC	5	11	18	15.0	25	F611BC563(1)630(2)
630	220	0.068	BC	5	11	18	15.0	25	F611BC683(1)630(2)
630	220	0.082	BC	5	11	18	15.0	25	F611BC823(1)630(2)
630	220	0.1	BE	5.5	12.5	18	15.0	25	F611BE104(1)630(2)
630	220	0.12	BG	6	12	18	15.0	25	F611BG124(1)630(2)
630	220	0.15	BK	7.5	13.5	18	15.0	25	F611BK154(1)630(2)
630	220	0.18	BK	7.5	13.5	18	15.0	25	F611BK184(1)630(2)
630	220	0.22	BP	8.5	14.5	18	15.0	25	F611BP224(1)630(2)
630	220	0.27	BS	10	16	18	15.0	25	F611BS274(1)630(2)
630	220	0.33	BS	10	16	18	15.0	25	F611BS334(1)630(2)
630	220	0.39	BY	11	19	18	15.0	25	F611BY394(1)630(2)
630	220	0.47	BY	11	19	18	15.0	25	F611BY474(1)630(2)
630	220	0.12	DB	6	14.5	26	22.5	12	F611DB124(1)630(2)
630	220	0.15	DB	6	14.5	26	22.5	12	F611DB154(1)630(2)
630	220	0.18	DB	6	14.5	26	22.5	12	F611DB184(1)630(2)
630	220	0.22	DB	6	14.5	26	22.5	12	F611DB224(1)630(2)
630	220	0.27	DI	7	16	26	22.5	12	F611DI274(1)630(2)
630	220	0.33	DI	7	16	26	22.5	12	F611DI334(1)630(2)
630	220	0.39	DH	8	16	26	22.5	12	F611DH394(1)630(2)
630	220	0.47	DJ	8.5	17	26	22.5	12	F611DJ474(1)630(2)
630	220	0.56	DM	9	18.5	26	22.5	12	F611DM564(1)630(2)
630	220	0.68	DO	10	18.5	26	22.5	12	F611DO684(1)630(2)
630	220	0.82	DP	11	20	26	22.5	12	F611DP824(1)630(2)
630	220	1.0	DU	13	22	26	22.5	12	F611DU105(1)630(2)
630	220	1.2	DY	15.5	24.5	26	22.5	12	F611DY125(1)630(2)
630	220	1.5	DY	15.5	24.5	26	22.5	12	F611DY155(1)630(2)
630	220	0.33	FB	9	17	31.5	27.5	10	F611FB334(1)630(2)
630	220	0.39	FB	9	17	31.5	27.5	10	F611FB394(1)630(2)
630	220	0.47	FB	9	17	31.5	27.5	10	F611FB474(1)630(2)
630	220	0.56	FB	9	17	31.5	27.5	10	F611FB564(1)630(2)
630	220	0.68	FB	9	17	31.5	27.5	10	F611FB684(1)630(2)
630	220	0.82	FC	11	20	31.5	27.5	10	F611FC824(1)630(2)
630	220	1.0	FC	11	20	31.5	27.5	10	F611FC105(1)630(2)
630	220	1.2	FI	13	25	31.5	27.5	10	F611FI125(1)630(2)
630	220	1.5	FI	13	25	31.5	27.5	10	F611FI155(1)630(2)
630	220	1.8	FI	13	25	31.5	27.5	10	F611FI185(1)630(2)
630	220	2.2	FN	14	28	31.5	27.5	10	F611FN225(1)630(2)
630	220	2.7	FR	17.5	28	31.5	27.5	10	F611FR275(1)630(2)
630	220	3.3	FS	19	29	31.5	27.5	10	F611FS335(1)630(2)
630	220	3.9	FY	22	37	31.5	27.5	10	F611FY395(1)630(2)
630	220	4.7	FY	22	37	31.5	27.5	10	F611FY475(1)630(2)
630	220	0.82	RB	11	22	41	37.5	8	F611RB824(1)630(2)
630	220	1.0	RB	11	22	41	37.5	8	F611RB105(1)630(2)
630	220	1.2	RB	11	22	41	37.5	8	F611RB125(1)630(2)
630	220	1.5	RB	11	22	41	37.5	8	F611RB155(1)630(2)
630	220	1.8	RB	11	22	41	37.5	8	F611RB185(1)630(2)
630	220	2.2	RF	13	24	41	37.5	8	F611RF225(1)630(2)
630	220	2.7	RH	15	26	41	37.5	8	F611RH275(1)630(2)
630	220	3.3	RC	16	28.5	41	37.5	8	F611RC335(1)630(2)
630	220	3.9	RD	19	32	41	37.5	8	F611RD395(1)630(2)
630	220	4.7	RD	19	32	41	37.5	8	F611RD475(1)630(2)
630	220	5.6	RP	21	38	41	37.5	8	F611RP565(1)630(2)
630	220	6.8	RP	21	38	41	37.5	8	F611RP685(1)630(2)
630	220	8.2	RO	24	44	41	37.5	8	F611RO825(1)630(2)
630	220	10.0	RO	24	44	41	37.5	8	F611RO106(1)630(2)
630	220	12.0	RU	30	45	41	37.5	8	F611RU126(1)630(2)
1000	250	0.001	JF	2.5	6.5	7.2	5.0	100	F611JF102(1)1K0(2)
1000	250	0.0012	JG	3.5	7.5	7.2	5.0	100	F611JG122(1)1K0(2)
VDC	VAC	Cap Value (μF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/μs)	Part Number

(1) K= ±10%, M = ±20%, J = ±5% on request.

(2) Insert lead and packaging code. See table for available options.

Table 1 – Ratings & Part Number Reference cont'd

VDC	VAC	Cap Value (μF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/μs)	Part Number
				B	H	L			
1000	250	0.0015	JG	3.5	7.5	7.2	5.0	100	F611JG152(1)1K0(2)
1000	250	0.0018	JG	3.5	7.5	7.2	5.0	100	F611JG182(1)1K0(2)
1000	250	0.0022	JG	3.5	7.5	7.2	5.0	100	F611JG222(1)1K0(2)
1000	250	0.0027	JG	3.5	7.5	7.2	5.0	100	F611JG272(1)1K0(2)
1000	250	0.0033	JG	3.5	7.5	7.2	5.0	100	F611JG332(1)1K0(2)
1000	250	0.0039	JM	4.5	9.5	7.2	5.0	100	F611JM392(1)1K0(2)
1000	250	0.0047	JM	4.5	9.5	7.2	5.0	100	F611JM472(1)1K0(2)
1000	250	0.0056	JM	4.5	9.5	7.2	5.0	100	F611JM562(1)1K0(2)
1000	250	0.0068	JQ	5	10	7.2	5.0	100	F611JQ682(1)1K0(2)
1000	250	0.0082	JT	6	11	7.2	5.0	100	F611JT822(1)1K0(2)
1000	250	0.01	JT	6	11	7.2	5.0	100	F611JT103(1)1K0(2)
1000	250	0.012	JT	6	11	7.2	5.0	100	F611JT123(1)1K0(2)
1000	250	0.015	JU	7.2	13	7.2	5.0	100	F611JU153(1)1K0(2)
1000	250	0.018	JU	7.2	13	7.2	5.0	100	F611JU183(1)1K0(2)
1000	250	0.001	KE	2.5	6	10	7.5	80	F611KE102(1)1K0(2)
1000	250	0.0012	KE	2.5	6	10	7.5	80	F611KE122(1)1K0(2)
1000	250	0.0015	KE	2.5	6	10	7.5	80	F611KE152(1)1K0(2)
1000	250	0.0018	KF	3	8	10	7.5	80	F611KF182(1)1K0(2)
1000	250	0.0022	KF	3	8	10	7.5	80	F611KF222(1)1K0(2)
1000	250	0.0027	KF	3	8	10	7.5	80	F611KF272(1)1K0(2)
1000	250	0.0033	KF	3	8	10	7.5	80	F611KF332(1)1K0(2)
1000	250	0.0039	KG	4	8	10	7.5	80	F611KG392(1)1K0(2)
1000	250	0.0047	KG	4	8	10	7.5	80	F611KG472(1)1K0(2)
1000	250	0.0056	KG	4	8	10	7.5	80	F611KG562(1)1K0(2)
1000	250	0.0068	KG	4	8	10	7.5	80	F611KG682(1)1K0(2)
1000	250	0.0082	KJ	5	10.5	10	7.5	80	F611KJ822(1)1K0(2)
1000	250	0.01	KJ	5	10.5	10	7.5	80	F611KJ103(1)1K0(2)
1000	250	0.012	KJ	5	10.5	10	7.5	80	F611KJ123(1)1K0(2)
1000	250	0.015	KM	6	12	10.5	7.5	80	F611KM153(1)1K0(2)
1000	250	0.018	KM	6	12	10.5	7.5	80	F611KM183(1)1K0(2)
1000	250	0.022	KM	6	12	10.5	7.5	80	F611KM223(1)1K0(2)
1000	250	0.001	AG	4	9	13	10.0	60	F611AG102(1)1K0(2)
1000	250	0.0012	AG	4	9	13	10.0	60	F611AG122(1)1K0(2)
1000	250	0.0015	AG	4	9	13	10.0	60	F611AG152(1)1K0(2)
1000	250	0.0018	AG	4	9	13	10.0	60	F611AG182(1)1K0(2)
1000	250	0.0022	AG	4	9	13	10.0	60	F611AG222(1)1K0(2)
1000	250	0.0027	AG	4	9	13	10.0	60	F611AG272(1)1K0(2)
1000	250	0.0033	AG	4	9	13	10.0	60	F611AG332(1)1K0(2)
1000	250	0.0039	AG	4	9	13	10.0	60	F611AG392(1)1K0(2)
1000	250	0.0047	AG	4	9	13	10.0	60	F611AG472(1)1K0(2)
1000	250	0.0056	AG	4	9	13	10.0	60	F611AG562(1)1K0(2)
1000	250	0.0068	AG	4	9	13	10.0	60	F611AG682(1)1K0(2)
1000	250	0.0082	AG	4	9	13	10.0	60	F611AG822(1)1K0(2)
1000	250	0.01	AG	4	9	13	10.0	60	F611AG103(1)1K0(2)
1000	250	0.012	AG	4	9	13	10.0	60	F611AG123(1)1K0(2)
1000	250	0.015	AK	5	11	13	10.0	60	F611AK153(1)1K0(2)
1000	250	0.018	AK	5	11	13	10.0	60	F611AK183(1)1K0(2)
1000	250	0.022	AP	6	12	13	10.0	60	F611AP223(1)1K0(2)
1000	250	0.027	AP	6	12	13	10.0	60	F611AP273(1)1K0(2)
1000	250	0.033	AP	6	12	13	10.0	60	F611AP333(1)1K0(2)
1000	250	0.0082	BB	4	10	18	15.0	30	F611BB822(1)1K0(2)
1000	250	0.01	BB	4	10	18	15.0	30	F611BB103(1)1K0(2)
1000	250	0.012	BB	4	10	18	15.0	30	F611BB123(1)1K0(2)
1000	250	0.015	BB	4	10	18	15.0	30	F611BB153(1)1K0(2)
1000	250	0.018	BB	4	10	18	15.0	30	F611BB183(1)1K0(2)
1000	250	0.022	BC	5	11	18	15.0	30	F611BC223(1)1K0(2)
1000	250	0.027	BC	5	11	18	15.0	30	F611BC273(1)1K0(2)
1000	250	0.033	BC	5	11	18	15.0	30	F611BC333(1)1K0(2)
1000	250	0.039	BE	5.5	12.5	18	15.0	30	F611BE393(1)1K0(2)
1000	250	0.047	BG	6	12	18	15.0	30	F611BG473(1)1K0(2)
VDC	VAC	Cap Value (μF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/μs)	Part Number

(1) K= ±10%, M = ±20%, J = ±5% on request.

(2) Insert lead and packaging code. See table for available options.

Table 1 – Ratings & Part Number Reference cont'd

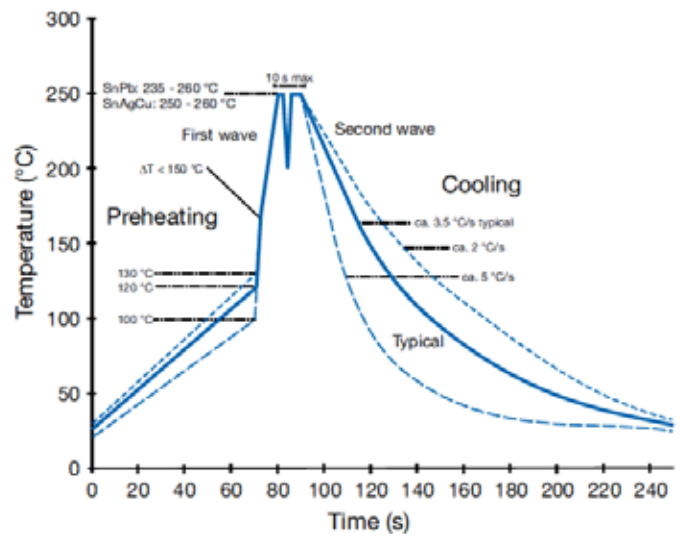
VDC	VAC	Cap Value (μF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/μs)	Part Number
				B	H	L			
1000	250	0.056	BK	7.5	13.5	18	15.0	30	F611BK563(1)1K0(2)
1000	250	0.068	BK	7.5	13.5	18	15.0	30	F611BK683(1)1K0(2)
1000	250	0.082	BP	8.5	14.5	18	15.0	30	F611BP823(1)1K0(2)
1000	250	0.1	BP	8.5	14.5	18	15.0	30	F611BP104(1)1K0(2)
1000	250	0.12	BS	10	16	18	15.0	30	F611BS124(1)1K0(2)
1000	250	0.15	BY	11	19	18	15.0	30	F611BY154(1)1K0(2)
1000	250	0.18	BY	11	19	18	15.0	30	F611BY184(1)1K0(2)
1000	250	0.033	DB	6	14.5	26	22.5	15	F611DB333(1)1K0(2)
1000	250	0.039	DB	6	14.5	26	22.5	15	F611DB393(1)1K0(2)
1000	250	0.047	DB	6	14.5	26	22.5	15	F611DB473(1)1K0(2)
1000	250	0.056	DB	6	14.5	26	22.5	15	F611DB563(1)1K0(2)
1000	250	0.068	DB	6	14.5	26	22.5	15	F611DB683(1)1K0(2)
1000	250	0.082	DB	6	14.5	26	22.5	15	F611DB823(1)1K0(2)
1000	250	0.1	DB	6	14.5	26	22.5	15	F611DB104(1)1K0(2)
1000	250	0.12	DI	7	16	26	22.5	15	F611DI124(1)1K0(2)
1000	250	0.15	DI	7	16	26	22.5	15	F611DI154(1)1K0(2)
1000	250	0.18	DH	8	16	26	22.5	15	F611DH184(1)1K0(2)
1000	250	0.22	DM	9	18.5	26	22.5	15	F611DM224(1)1K0(2)
1000	250	0.27	DO	10	18.5	26	22.5	15	F611DO274(1)1K0(2)
1000	250	0.33	DP	11	20	26	22.5	15	F611DP334(1)1K0(2)
1000	250	0.39	DU	13	22	26	22.5	15	F611DU394(1)1K0(2)
1000	250	0.47	DU	13	22	26	22.5	15	F611DU474(1)1K0(2)
1000	250	0.56	DY	15.5	24.5	26	22.5	15	F611DY564(1)1K0(2)
1000	250	0.68	DY	15.5	24.5	26	22.5	15	F611DY684(1)1K0(2)
1000	250	0.15	FB	9	17	31.5	27.5	12	F611FB154(1)1K0(2)
1000	250	0.18	FB	9	17	31.5	27.5	12	F611FB184(1)1K0(2)
1000	250	0.22	FB	9	17	31.5	27.5	12	F611FB224(1)1K0(2)
1000	250	0.27	FB	9	17	31.5	27.5	12	F611FB274(1)1K0(2)
1000	250	0.33	FB	9	17	31.5	27.5	12	F611FB334(1)1K0(2)
1000	250	0.39	FC	11	20	31.5	27.5	12	F611FC394(1)1K0(2)
1000	250	0.47	FC	11	20	31.5	27.5	12	F611FC474(1)1K0(2)
1000	250	0.56	FI	13	25	31.5	27.5	12	F611FI564(1)1K0(2)
1000	250	0.68	FI	13	25	31.5	27.5	12	F611FI684(1)1K0(2)
1000	250	0.82	FN	14	28	31.5	27.5	12	F611FN824(1)1K0(2)
1000	250	1.0	FR	17.5	28	31.5	27.5	12	F611FR105(1)1K0(2)
1000	250	1.2	FR	17.5	28	31.5	27.5	12	F611FR125(1)1K0(2)
1000	250	1.5	FS	19	29	31.5	27.5	12	F611FS155(1)1K0(2)
1000	250	1.8	FY	22	37	31.5	27.5	12	F611FY185(1)1K0(2)
1000	250	2.2	FY	22	37	31.5	27.5	12	F611FY225(1)1K0(2)
1000	250	0.47	RB	11	22	41	37.5	10	F611RB474(1)1K0(2)
1000	250	0.56	RB	11	22	41	37.5	10	F611RB564(1)1K0(2)
1000	250	0.68	RB	11	22	41	37.5	10	F611RB684(1)1K0(2)
1000	250	0.82	RF	13	24	41	37.5	10	F611RF824(1)1K0(2)
1000	250	1.0	RF	13	24	41	37.5	10	F611RF105(1)1K0(2)
1000	250	1.2	RH	15	26	41	37.5	10	F611RH125(1)1K0(2)
1000	250	1.5	RC	16	28.5	41	37.5	10	F611RC155(1)1K0(2)
1000	250	1.8	RD	19	32	41	37.5	10	F611RD185(1)1K0(2)
1000	250	2.2	RD	19	32	41	37.5	10	F611RD225(1)1K0(2)
1000	250	2.7	RP	21	38	41	37.5	10	F611RP275(1)1K0(2)
1000	250	3.3	RO	24	44	41	37.5	10	F611RO335(1)1K0(2)
1000	250	3.9	RO	24	44	41	37.5	10	F611RO395(1)1K0(2)
1000	250	4.7	RU	30	45	41	37.5	10	F611RU475(1)1K0(2)
1000	250	5.6	RU	30	45	41	37.5	10	F611RU565(1)1K0(2)
VDC	VAC	Cap Value (μF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/μs)	Part Number

(1) K= ±10%, M = ±20%, J = ±5% on request.

(2) Insert lead and packaging code. See table for available options.

Soldering Process

The implementation of the RoHS Directive has required the selection SnAuCu (SAC) alloys or SnCu alloys as primary solder. This has increased the liquidus temperature from that of 183°C for SnPb eutectic alloy to 217°C – 221°C for the new alloys. As a result, the heat stress to components, even in wave soldering, has increased considerably due to higher pre-heat and wave temperatures. Wave soldering can be destructive especially for mechanically small polypropylene capacitors and great care must be taken during soldering. The solder profiles from KEMET are highly recommended. You may also refer to the wave soldering curve from IEC Publication 61760–1 Edition 2. Please consult KEMET with any questions.



Marking

- KEMET's logo
- Series
- Capacitance
- Capacitance tolerance
- Rated voltage
- IEC climatic category
- Passive flammability class
- Manufacturing date code

Packaging Quantities

Size Code	Lead Spacing	Thickness (mm)	Height (mm)	Length (mm)	Bulk Short Leads	Bulk Long Leads	Standard Reel ø 355 mm	Large Reel ø 500 mm	Ammo	Pizza
JF	5	2.5	6.5	7.2	3000	4000	2500		3500	
JG		3.5	7.5	7.2	2000	3000	1800		2500	
JM		4.5	9.5	7.2	1500	2000	1400		1900	
JQ		5.0	10.0	7.2	1000	1500	1200		1700	
JT		6	11	7.2	2000	1000	1000		1400	
JU		7.2	13	7.2	1500	750	800		1150	
KE	7.5	2.5	6	10	2000	3000	2500		3500	
KF		3	8	10	1500	1750	2100		2800	
KG		4	8	10	2000	1500	1500		2100	
KJ		5	10.5	10	1500	1000	1200		1600	
KM		6	12	10.5	1000	800	1000		1350	
KH		4	9	10	2000	1500	1500		2100	
AN	10	3.5	9	13	2200	3200	850	1700	1150	
AG		4	9	13	2000	2200	750	1500	1000	
AK		5	11	13	1300	2000	600	1250	800	
AP		6	12	13	1000	1800	500	1000	680	
AO		7	17	13	600	900	450	900	580	
AL		9.5	7.5	13	1100	2000	300	600	430	
AE		4	8	13	2000	2200	750	1500	1000	
BB	15	4	10	18	1300	1500	750	1500	1000	1411
BC		5	11	18	1000	1250	600	1250	800	1139
BE		5.5	12.5	18	800	1100	550	1100	750	1020
BG		6	12	18	1750	1000	500	1000	680	935
BK		7.5	13.5	18	1000	800	350	800	500	748
BI		6	17.5	18	1000	800	500	1000	680	935
BP		8.5	14.5	18	1000	650	300	700	440	663
BT		9	12.5	18	1000	700	270	650	410	629
BO		7.5	18.5	18	900	600	350	800	500	748
BS		10	16	18	750	550	300	600	380	561
BR		13	12	18	750	520	200	480	280	425
BY		11	19	18	450	400	250	500	340	510
BA		8.5	12.5	18	1000	650	300	700	440	663
BZ		12	20	18	350	300	220	450	330	459

Packaging Quantities cont'd

Size Code	Lead Spacing	Thickness (mm)	Height (mm)	Length (mm)	Bulk Short Leads	Bulk Long Leads	Standard Reel ø 355 mm	Large Reel ø 500 mm	Ammo	Pizza
DB	22.5	6	14.5	26	1638	702	300	700	464	660
DI		7	16	26	1188	594	250	550	380	564
DH		8.0	16.0	26	1026	513	240	500	330	492
DJ		8.5	17	26	972	486	250	450	280	468
DM		9	18.5	26	918	459	200	400	300	444
DO		10	18.5	26	810	405	160	350	235	396
DP		11	20	26	756	378	190	350	217	360
DU		13	22	26	540	324	150	300	200	300
DY		15.5	24.5	26	450	270	120	250	170	252
FB	27.5	9.0	17.0	31.5	816	408				370
FC		11.0	20.0	31.5	672	336				300
FI		13.0	25.0	31.5	480	288				250
FN		14.0	28.0	31.5	352	176				230
FO		17.0	40.0	31.5	216	144				190
FR		17.5	28.0	31.5	256	128				190
FS		19.0	29.0	31.5	256	128				170
FY		22.0	37.0	31.5	168	112				150
FH		21.0	12.5	31.5	392	168				150
FQ		27.5	16.0	31.5	280	120				120
FT		31.0	19.0	31.5	240	120				100
RB	37.5	11.0	22.0	41.0	420	252				210
RF		13.0	24.0	41.0	360	216				175
RH		15.0	26.0	41.0	300	180				154
RC		16.0	28.5	41.0	216	108				140
RD		19.0	32.0	41.0	192	96				119
RP		21.0	38.0	41.0	126	84				105
RO		24.0	44.0	41.0	108	72				91
RU		30.0	45.0	41.0	90	60				77
RV		24.0	15.0	41.0	252	108				91
RW		24.0	19.0	41.0	216	108				91

F622 Series Metallized Polyester Film, 5 mm Lead Spacing, 50 – 630 VDC

Overview

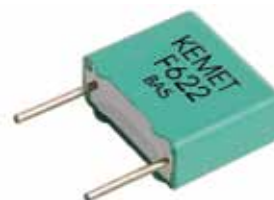
The F622 Series is constructed of metallized stacked polyester film capacitor with radial leads of tinned wire. Radial leads are electrically welded to the contact metal layer on the ends of the capacitor winding. The capacitor is encapsulated in a self-extinguishing material meeting the requirements of UL 94 V-0.

Applications

Typical applications include high performance, high temperature blocking, coupling, decoupling, bypassing and interference suppression in low voltage applications such as automotive. Not for use with the mains.

Benefits

- Voltage range: 50 – 630 VDC
- Capacitance range: 0.001 – 2.2 μ F
- Lead spacing: 5 mm
- Capacitance tolerance: $\pm 20\%$, $\pm 10\%$, $\pm 5\%$ on request
- Climatic category: 55/125/56
- Tape and reel packaging in accordance with IEC 60286-2
- RoHS Compliant and lead-free terminations
- Operating temperature range of -55°C to +125°C
- Designed for high performance, high temperature applications



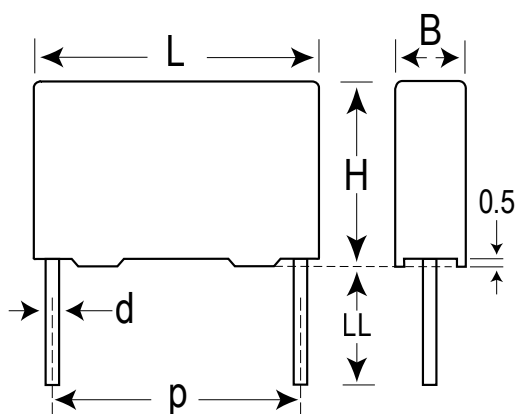
Part Number System

F	622	J	F	104	M	050	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Voltage (VDC)	Lead and Packaging Code
F = Film	Metallized Polyester	J = 5	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	050 = 50 063 = 63 100 = 100 250 = 250 400 = 400 500 = 500 630 = 630	See Ordering Options Table

Ordering Options Table

Lead Spacing Nominal (mm)	Type of Leads and Packaging	Lead Length (mm)	Lead and Packaging Code
5	Standard Lead and Packaging Options		
	Bulk (Bag) – Short Leads	4 +2/-0	C
	Bulk (Bag) – Long Leads	17 +0/-1	A
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Other Lead and Packaging Options		
	Bulk (Bag) – Max Length Leads	20 +5/-0	ALL0L
	Ammo Pack	H ₀ = 18.5 +/-0.5	R

Dimensions – Millimeters



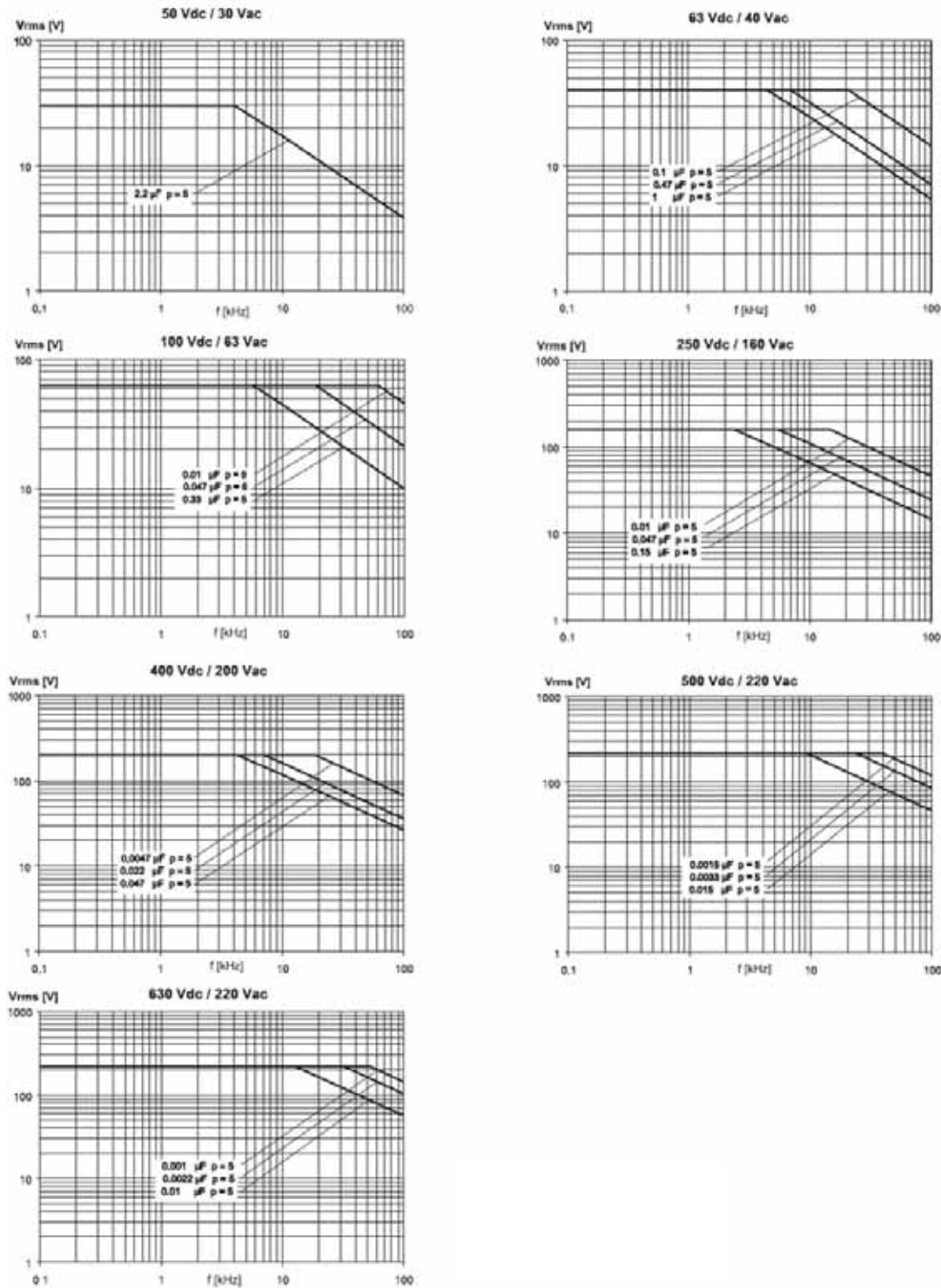
Size Code	p		B		H		L		d	
	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
JF	5.0	+/-0.4	2.5	Max	6.5	Max	7.2	Max	0.6	+/-0.05
JG	5.0	+/-0.4	3.5	Max	7.5	Max	7.2	Max	0.6	+/-0.05
JM	5.0	+/-0.4	4.5	Max	9.5	Max	7.2	Max	0.6	+/-0.05
JQ	5.0	+/-0.4	5.0	Max	10.0	Max	7.2	Max	0.6	+/-0.05
JT	5.0	+/-0.4	6.0	Max	11.0	Max	7.2	Max	0.6	+/-0.05
Note: See Ordering Options Table for lead length (LL) options.										

Performance Characteristics

Capacitance Tolerance	$\pm 20\%$, $\pm 10\%$, $\pm 5\%$ on request			
Category Temperature Range	-55°C to 125°C			
Voltage Derating	Above $+85^{\circ}\text{C}$ DC and AC voltage derating is $1.25\%/^{\circ}\text{C}$			
Rated Temperature	$+85^{\circ}\text{C}$			
Climatic Category	-55 to $+125^{\circ}\text{C}$			
	Average relative humidity $\leq 75\%$			
	RH = 95% for 30 days per year			
	RH = 85% for further days limited by average value per year			
Test Voltage	$1.6 \times V_R$ VDC for 2 seconds			
Capacitance Drift	Maximum 3% after a 2 year storage period at a temperature of $+10^{\circ}\text{C}$ to $+40^{\circ}\text{C}$ and a relative humidity of 40% to 60%			
Reliability	Operational life $> 200,000$ hours			
	Failure rate < 3 FIT, $T = +40^{\circ}\text{C}$, $V = 0.5 \times V_R$			
	Failure criteria: open circuit, short circuit, cap change $> 10\%$, DF 2 times the catalog limits, IR $< 50 \text{ M}\Omega$			
Maximum Pulse Steepness	dV/dt according to Table 1. For peak to peak voltages lower than rated voltage ($V_{pp} < V_R$), the specified dV/dt can be multiplied by the factor V_R/V_{pp} .			
Temperature Coefficient	$+400 (\pm 200)$ ppm/ $^{\circ}\text{C}$ at 1 kHz			
Self Inductance	Approximately 6 nH/cm for the total length of capacitor winding and the leads			
Dissipation Factor $\tan\delta$	Maximum Values at $+23^{\circ}\text{C}$			
		$C \leq 0.1 \mu\text{F}$	$0.1 \mu\text{F} < C \leq 1.0 \mu\text{F}$	$C > 1.0 \mu\text{F}$
Lead Spacing 5 mm	1 kHz	0.8%	0.8%	0.8%
	10 kHz	1.2%	1.2%	1.5%
	100 kHz	2.5%		
Insulation Resistance	Measured at $+20^{\circ}\text{C}$, according to IEC 60384-2			
	Minimum Values Between Terminals			
		$C \leq 0.33 \mu\text{F}$	$C > 0.33 \mu\text{F}$ and $< 1 \mu\text{F}$	$C > 1.0 \mu\text{F}$
	$V_R \leq 100 \text{ VDC}$	15,000 $\text{M}\Omega$	5,000 $\text{M}\Omega \cdot \mu\text{F}$	1,000 $\text{M}\Omega \cdot \mu\text{F}$
	$V_R > 100 \text{ VDC}$	30,000 $\text{M}\Omega$	10,000 $\text{M}\Omega \cdot \mu\text{F}$	

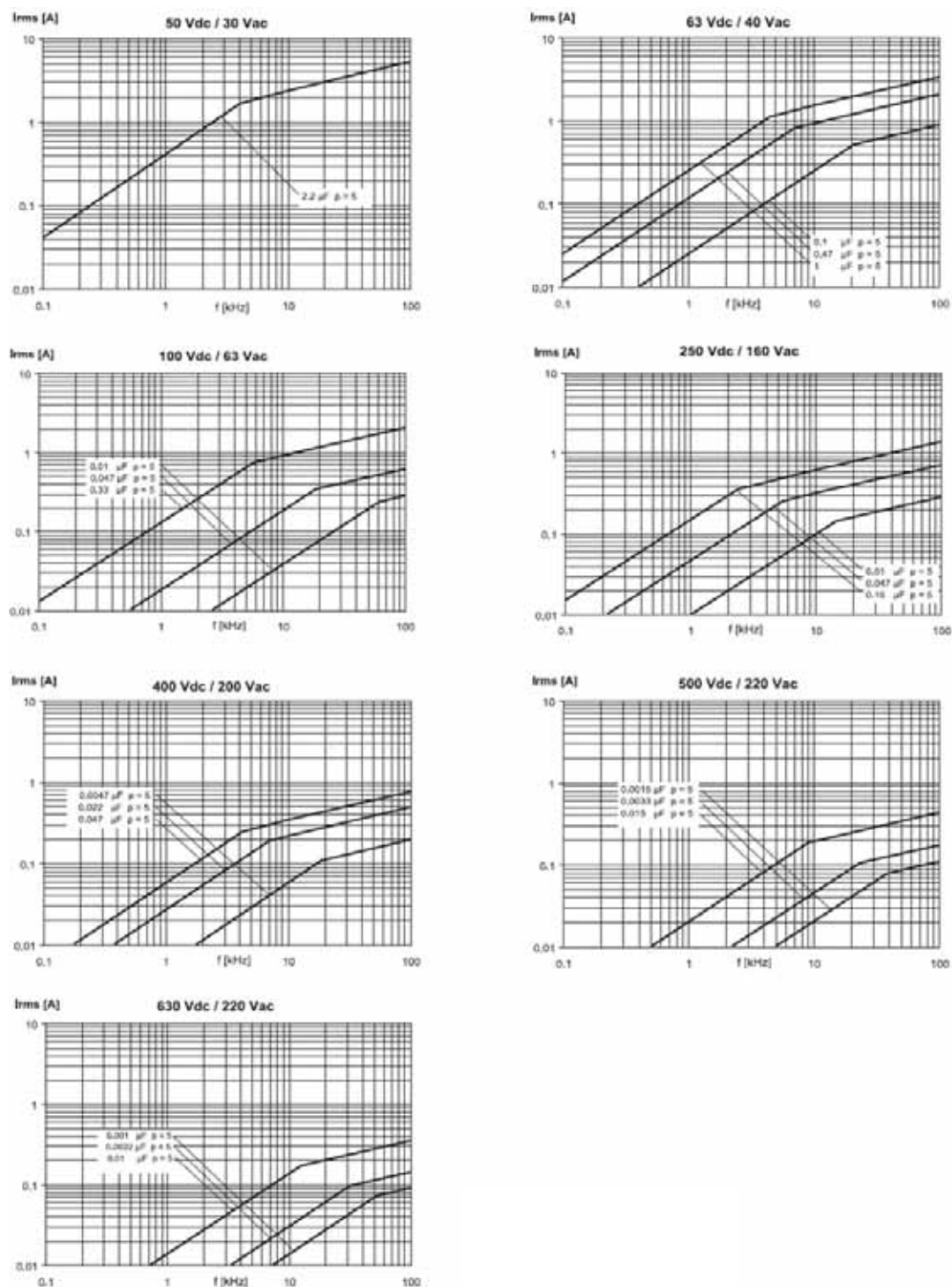
Maximum Voltage (V_{rms}) vs. Frequency (Sinusoidal Waveform/ $T_h \leq 40^\circ\text{C}$)

Lead Spacing 5 mm



Max Current (I_{rms}) vs. Frequency (Sinusoidal Waveform/ $T_h \leq 40^\circ\text{C}$)

Lead Spacing 5 mm



Environmental Test Data

Damp Heat Test	Test Conditions	T = +40°C, RH = 93%, t = 56 days
	Test Criteria	$\Delta C/C \leq \pm 5\%$ $\Delta \tan \delta \leq 0.005$ (1 kHz) IR after test 0.5 x IR minimum
Endurance Test	Test Conditions	T = +100°C, U = 1.25 x (0.8 x U _R)
	Test Criteria	t = 2,000 hours $\Delta C/C \leq \pm 5\%$ $\Delta \tan \delta \leq 0.005$ (1 kHz) $\Delta \tan \delta \leq 0.010$ (100 kHz) IR after test 0.5 x IR minimum

Environmental Compliance

All KEMET MKTI capacitors are RoHS Compliant.



RoHS Compliant

Table 1 – Ratings & Part Number Reference

VDC	VAC	Cap Value (µF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/µs)	Part Number
				B	H	L			
50	30	2.2	JT	6.0	11.0	7.2	5.0	200	F622JT225(1)050(2)
63	40	0.10	JF	2.5	6.5	7.2	5.0	250	F622JF104(1)063(2)
63	40	0.12	JF	2.5	6.5	7.2	5.0	250	F622JF124(1)063(2)
63	40	0.15	JF	2.5	6.5	7.2	5.0	250	F622JF154(1)063(2)
63	40	0.18	JF	2.5	6.5	7.2	5.0	250	F622JF184(1)063(2)
63	40	0.22	JF	2.5	6.5	7.2	5.0	250	F622JF224(1)063(2)
63	40	0.27	JG	3.5	7.5	7.2	5.0	250	F622JG274(1)063(2)
63	40	0.33	JG	3.5	7.5	7.2	5.0	250	F622JG334(1)063(2)
63	40	0.39	JG	3.5	7.5	7.2	5.0	250	F622JG394(1)063(2)
63	40	0.47	JG	3.5	7.5	7.2	5.0	250	F622JG474(1)063(2)
63	40	0.56	JM	4.5	9.5	7.2	5.0	250	F622JM564(1)063(2)
63	40	0.68	JM	4.5	9.5	7.2	5.0	250	F622JM684(1)063(2)
63	40	0.82	JM	4.5	9.5	7.2	5.0	250	F622JM824(1)063(2)
63	40	1.0	JQ	5.0	10.0	7.2	5.0	250	F622JQ105(1)063(2)
63	40	1.2	JT	6.0	11.0	7.2	5.0	250	F622JT125(1)063(2)
63	40	1.5	JT	6.0	11.0	7.2	5.0	250	F622JT155(1)063(2)
100	63	0.0047	JF	2.5	6.5	7.2	5.0	300	F622JF472(1)100(2)
100	63	0.0056	JF	2.5	6.5	7.2	5.0	300	F622JF562(1)100(2)
100	63	0.0068	JF	2.5	6.5	7.2	5.0	300	F622JF682(1)100(2)
100	63	0.0082	JF	2.5	6.5	7.2	5.0	300	F622JF822(1)100(2)
100	63	0.010	JF	2.5	6.5	7.2	5.0	300	F622JF103(1)100(2)
100	63	0.012	JF	2.5	6.5	7.2	5.0	300	F622JF123(1)100(2)
100	63	0.015	JF	2.5	6.5	7.2	5.0	300	F622JF153(1)100(2)
100	63	0.018	JF	2.5	6.5	7.2	5.0	300	F622JF183(1)100(2)
100	63	0.022	JF	2.5	6.5	7.2	5.0	300	F622JF223(1)100(2)
100	63	0.027	JF	2.5	6.5	7.2	5.0	300	F622JF273(1)100(2)
100	63	0.033	JF	2.5	6.5	7.2	5.0	300	F622JF333(1)100(2)
100	63	0.039	JF	2.5	6.5	7.2	5.0	300	F622JF393(1)100(2)
100	63	0.047	JF	2.5	6.5	7.2	5.0	300	F622JF473(1)100(2)
100	63	0.056	JF	2.5	6.5	7.2	5.0	300	F622JF563(1)100(2)
100	63	0.068	JF	2.5	6.5	7.2	5.0	300	F622JF683(1)100(2)
100	63	0.082	JG	3.5	7.5	7.2	5.0	300	F622JG823(1)100(2)
100	63	0.10	JG	3.5	7.5	7.2	5.0	300	F622JG104(1)100(2)
100	63	0.12	JM	4.5	9.5	7.2	5.0	300	F622JM124(1)100(2)
100	63	0.15	JM	4.5	9.5	7.2	5.0	300	F622JM154(1)100(2)
100	63	0.18	JM	4.5	9.5	7.2	5.0	300	F622JM184(1)100(2)
100	63	0.22	JQ	5.0	10.0	7.2	5.0	300	F622JQ224(1)100(2)
100	63	0.27	JT	6.0	11.0	7.2	5.0	300	F622JT274(1)100(2)
100	63	0.33	JT	6.0	11.0	7.2	5.0	300	F622JT334(1)100(2)
100	63	0.39	JT	6.0	11.0	7.2	5.0	300	F622JT394(1)100(2)
100	63	0.47	JT	6.0	11.0	7.2	5.0	300	F622JT474(1)100(2)
250	160	0.0010	JF	2.5	6.5	7.2	5.0	400	F622JF102(1)250(2)
250	160	0.0012	JF	2.5	6.5	7.2	5.0	400	F622JF122(1)250(2)
250	160	0.0015	JF	2.5	6.5	7.2	5.0	400	F622JF152(1)250(2)
250	160	0.0018	JF	2.5	6.5	7.2	5.0	400	F622JF182(1)250(2)
250	160	0.0022	JF	2.5	6.5	7.2	5.0	400	F622JF222(1)250(2)
250	160	0.0027	JF	2.5	6.5	7.2	5.0	400	F622JF272(1)250(2)
250	160	0.0033	JF	2.5	6.5	7.2	5.0	400	F622JF332(1)250(2)
250	160	0.0039	JF	2.5	6.5	7.2	5.0	400	F622JF392(1)250(2)
250	160	0.0047	JF	2.5	6.5	7.2	5.0	400	F622JF472(1)250(2)
250	160	0.0056	JF	2.5	6.5	7.2	5.0	400	F622JF562(1)250(2)
250	160	0.0068	JF	2.5	6.5	7.2	5.0	400	F622JF682(1)250(2)
250	160	0.082	JF	2.5	6.5	7.2	5.0	400	F622JF823(1)250(2)
250	160	0.010	JF	2.5	6.5	7.2	5.0	400	F622JF103(1)250(2)
250	160	0.012	JF	2.5	6.5	7.2	5.0	400	F622JF123(1)250(2)
250	160	0.015	JF	2.5	6.5	7.2	5.0	400	F622JF153(1)250(2)
250	160	0.018	JF	2.5	6.5	7.2	5.0	400	F622JF183(1)250(2)
250	160	0.022	JG	3.5	7.5	7.2	5.0	400	F622JG223(1)250(2)
250	160	0.027	JG	3.5	7.5	7.2	5.0	400	F622JG273(1)250(2)
VDC	VAC	Cap Value (µF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/µs)	Part Number

(1) K = ±10%, M = ±20%, J = ±5% on request.

(2) Insert lead and packaging code. See table for available options.

Table 1 – Ratings & Part Number Reference cont'd

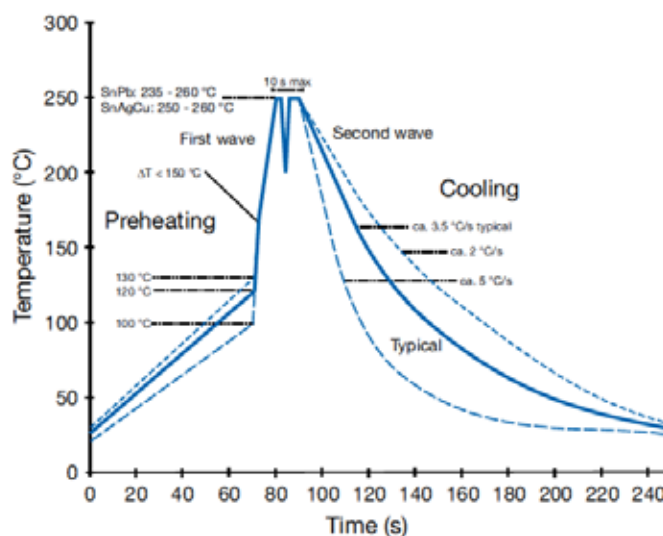
VDC	VAC	Cap Value (µF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/µs)	Part Number
				B	H	L			
250	160	0.033	JG	3.5	7.5	7.2	5.0	400	F622JG333(1)250(2)
250	160	0.039	JG	3.5	7.5	7.2	5.0	400	F622JG393(1)250(2)
250	160	0.047	JM	4.5	9.5	7.2	5.0	400	F622JM473(1)250(2)
250	160	0.056	JM	4.5	9.5	7.2	5.0	400	F622JM563(1)250(2)
250	160	0.068	JM	4.5	9.5	7.2	5.0	400	F622JM683(1)250(2)
250	160	0.082	JM	4.5	9.5	7.2	5.0	400	F622JM823(1)250(2)
250	160	0.10	JQ	5.0	10.0	7.2	5.0	400	F622JQ104(1)250(2)
250	160	0.12	JT	6.0	11.0	7.2	5.0	400	F622JT124(1)250(2)
250	160	0.15	JT	6.0	11.0	7.2	5.0	400	F622JT154(1)250(2)
400	200	0.0010	JF	2.5	6.5	7.2	5.0	600	F622JF102(1)400(2)
400	200	0.0012	JF	2.5	6.5	7.2	5.0	600	F622JF122(1)400(2)
400	200	0.0015	JF	2.5	6.5	7.2	5.0	600	F622JF152(1)400(2)
400	200	0.0018	JF	2.5	6.5	7.2	5.0	600	F622JF182(1)400(2)
400	200	0.0022	JF	2.5	6.5	7.2	5.0	600	F622JF222(1)400(2)
400	200	0.0027	JF	2.5	6.5	7.2	5.0	600	F622JF272(1)400(2)
400	200	0.0033	JF	2.5	6.5	7.2	5.0	600	F622JF332(1)400(2)
400	200	0.0039	JF	2.5	6.5	7.2	5.0	600	F622JF392(1)400(2)
400	200	0.0047	JF	2.5	6.5	7.2	5.0	600	F622JF472(1)400(2)
400	200	0.0056	JG	3.5	7.5	7.2	5.0	600	F622JG562(1)400(2)
400	200	0.0068	JG	3.5	7.5	7.2	5.0	600	F622JG682(1)400(2)
400	200	0.0082	JG	3.5	7.5	7.2	5.0	600	F622JG822(1)400(2)
400	200	0.010	JG	3.5	7.5	7.2	5.0	600	F622JG103(1)400(2)
400	200	0.012	JG	3.5	7.5	7.2	5.0	600	F622JG123(1)400(2)
400	200	0.015	JG	3.5	7.5	7.2	5.0	600	F622JG153(1)400(2)
400	200	0.018	JM	4.5	9.5	7.2	5.0	600	F622JM183(1)400(2)
400	200	0.022	JM	4.5	9.5	7.2	5.0	600	F622JM223(1)400(2)
400	200	0.027	JM	4.5	9.5	7.2	5.0	600	F622JM273(1)400(2)
400	200	0.033	JQ	5.0	10.0	7.2	5.0	600	F622JQ333(1)400(2)
400	200	0.039	JQ	5.0	10.0	7.2	5.0	600	F622JQ393(1)400(2)
400	200	0.047	JT	6.0	11.0	7.2	5.0	600	F622JT473(1)400(2)
400	200	0.056	JT	6.0	11.0	7.2	5.0	600	F622JT563(1)400(2)
500	220	0.0010	JF	2.5	6.5	7.2	5.0	700	F622JF102(1)500(2)
500	220	0.0012	JF	2.5	6.5	7.2	5.0	700	F622JF122(1)500(2)
500	220	0.0015	JF	2.5	6.5	7.2	5.0	700	F622JF152(1)500(2)
500	220	0.0018	JF	2.5	6.5	7.2	5.0	700	F622JF182(1)500(2)
500	220	0.0022	JG	3.5	7.5	7.2	5.0	700	F622JG222(1)500(2)
500	220	0.0027	JG	3.5	7.5	7.2	5.0	700	F622JG272(1)500(2)
500	220	0.0033	JG	3.5	7.5	7.2	5.0	700	F622JG332(1)500(2)
500	220	0.0039	JG	3.5	7.5	7.2	5.0	700	F622JG392(1)500(2)
500	220	0.0047	JG	3.5	7.5	7.2	5.0	700	F622JG472(1)500(2)
500	220	0.0056	JM	4.5	9.5	7.2	5.0	700	F622JM562(1)500(2)
500	220	0.0068	JM	4.5	9.5	7.2	5.0	700	F622JM682(1)500(2)
500	220	0.0082	JM	4.5	9.5	7.2	5.0	700	F622JM822(1)500(2)
500	220	0.010	JQ	5.0	10.0	7.2	5.0	700	F622JQ103(1)500(2)
500	220	0.012	JT	6.0	11.0	7.2	5.0	700	F622JT123(1)500(2)
500	220	0.015	JT	6.0	11.0	7.2	5.0	700	F622JT153(1)500(2)
630	220	0.0010	JF	2.5	6.5	7.2	5.0	800	F622JF102(1)630(2)
630	220	0.0012	JF	2.5	6.5	7.2	5.0	800	F622JF122(1)630(2)
630	220	0.0015	JG	3.5	7.5	7.2	5.0	800	F622JG152(1)630(2)
630	220	0.0018	JG	3.5	7.5	7.2	5.0	800	F622JG182(1)630(2)
630	220	0.0022	JG	3.5	7.5	7.2	5.0	800	F622JG222(1)630(2)
630	220	0.0027	JG	3.5	7.5	7.2	5.0	800	F622JG272(1)630(2)
630	220	0.0033	JM	4.5	9.5	7.2	5.0	800	F622JM332(1)630(2)
630	220	0.0039	JM	4.5	9.5	7.2	5.0	800	F622JM392(1)630(2)
630	220	0.0047	JM	4.5	9.5	7.2	5.0	800	F622JM472(1)630(2)
630	220	0.0056	JM	4.5	9.5	7.2	5.0	800	F622JM562(1)630(2)
630	220	0.0068	JQ	5.0	10.0	7.2	5.0	800	F622JQ682(1)630(2)
VDC	VAC	Cap Value (µF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/µs)	Part Number

(1) K = ±10%, M = ±20%, J = ±5% on request.

(2) Insert lead and packaging code. See table for available options.

Soldering Process

The implementation of the RoHS Directive has required the selection SnAuCu (SAC) alloys or SnCu alloys as primary solder. This has increased the liquidus temperature from that of 183°C for SnPb eutectic alloy to 217°C – 221°C for the new alloys. As a result, the heat stress to components, even in wave soldering, has increased considerably due to higher pre-heat and wave temperatures. Wave soldering can be destructive especially for mechanically small polypropylene capacitors and great care must be taken during soldering. The solder profiles from KEMET are highly recommended. You may also refer to the wave soldering curve from IEC Publication 61760–1 Edition 2. Please consult KEMET with any questions.



Marking

- KEMET's logo
- Series
- Capacitance
- Capacitance tolerance
- Rated voltage
- IEC climatic category
- Passive flammability class
- Manufacturing date code

Packaging Quantities

Size Code	Lead Spacing	Thickness (mm)	Height (mm)	Length (mm)	Bulk Short Leads	Bulk Long Leads	Standard Reel ø 355 mm	Ammo
JF	5	2.5	6.5	7.2	3000	4000	2500	3500
JG		3.5	7.5	7.2	2000	3000	1800	2500
JM		4.5	9.5	7.2	1500	2000	1400	1900
JQ		5.0	10.0	7.2	1000	1500	1200	1700
JT		6	11	7.2	2000	1000	1000	1400
JU		7.2	13	7.2	1500	750	800	1150

Overview

Metallized polypropylene film encapsulated with self-extinguishing resin in a box of material recognized to UL 94 V-0. Four different winding constructions are used depending on voltage and lead spacing. Please see Table 1 for more information.

Applications

Pulse operation in switched mode power supply (SMPS), televisions, computer monitors, electrical ballasts and other high frequency applications demanding stable operation.

Benefits

- Rated voltage: 160 – 2,500 VDC
- Rated voltage: 90 – 900 VAC
- Capacitance range: 0.001 – 56 μ F
- Lead spacing: 5 – 37.5 mm
- Capacitance tolerance: $\pm 5\%$, $\pm 10\%$, other tolerances on request
- Climatic category: 55/105/56, IEC 60068-1
- Tape and reel packaging in accordance with IEC 60286-2
- RoHS Compliant and lead-free terminations
- Category temperature range of -55°C to +105°C
- Rated temperature +85°C



Part Number System

F	46x	K	E	223	J	160	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (EIA pF)	Capacitance Tolerance	Rated Voltage (VDC)	Lead and Packaging Code
F = Film	Metallized Polypropylene x = sections in construction	J = 5 K = 7.5 A = 10 B = 15 D = 22.5 F = 27.5 R = 37.5	See Dimension Table	First two digits indicate the two most significant digits of the capacitance value in picofarads. The third digit is the number of following zeros.	J = $\pm 5\%$ K = $\pm 10\%$ On Request F = $\pm 1\%$ G = $\pm 2\%$ M = $\pm 20\%$	160 = 160 250 = 250 400 = 400 630 = 630 1K0 = 1000 1L2 = 1250 1K6 = 1600 2K0 = 2000 2K5 = 2500	See Ordering Options Table

Ordering Options Table

Lead Spacing Nominal (mm)	Type of Leads and Packaging	Lead Length (mm)	Lead and Packaging Code
5	Standard Lead and Packaging Options		
	Bulk (Bag) – Short Leads	4 +2/-0	C
	Bulk (Bag) – Long Leads	17 +0/-1	A
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Other Lead and Packaging Options		
	Bulk (Bag) – Max Length Leads	20 +5/-0	ALL0L
	Ammo Pack	H ₀ = 18.5 +/-0.5	R

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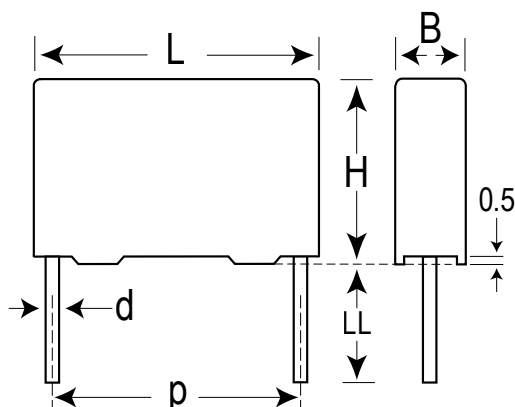
Ordering Options Table cont'd

Lead Spacing Nominal (mm)	Type of Leads and Packaging	Lead Length (mm)	Lead and Packaging Code
7.5	Standard Lead and Packaging Options		
	Bulk (Bag) – Short Leads	4 +2/-0	C
	Bulk (Bag) – Long Leads	17 +0/-1	A
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Other Lead and Packaging Options		
	Bulk (Bag) – Max Length Leads	20 +5/-0	ALL0L
	Ammo Pack	H ₀ = 18.5 +/-0.5	R
10	Standard Lead and Packaging Options		
	Bulk (Bag) – Short Leads	4 +2/-0	C
	Bulk (Bag) – Long Leads	17 +0/-1	A
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Other Lead and Packaging Options		
	Bulk (Bag) – Max Length Leads	20 +5/-0	ALL0L
	Ammo Pack	H ₀ = 18.5 +/-0.5	R
15	Standard Lead and Packaging Options		
	Bulk (Bag) – Short Leads	4 +2/-0	C
	Bulk (Bag) – Long Leads	17 +0/-1	A
	Pizza Pack	4 +2/-0	Z
	Other Lead and Packaging Options		
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Tape & Reel (Large Reel)	H ₀ = 18.5 +/-0.5	P
	Bulk (Bag) – Max Length Leads	25 +5/-0	ALR0L
22.5	Standard Lead and Packaging Options		
	Bulk (Tray) – Short Leads	4 +2/-0	F
	Bulk (Tray) – Long Leads	17 +0/-1	H
	Pizza Pack	4 +2/-0	Z
	Other Lead and Packaging Options		
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Tape & Reel (Large Reel)	H ₀ = 18.5 +/-0.5	P
	Ammo Pack	H ₀ = 18.5 +/-0.5	R

Ordering Options Table cont'd

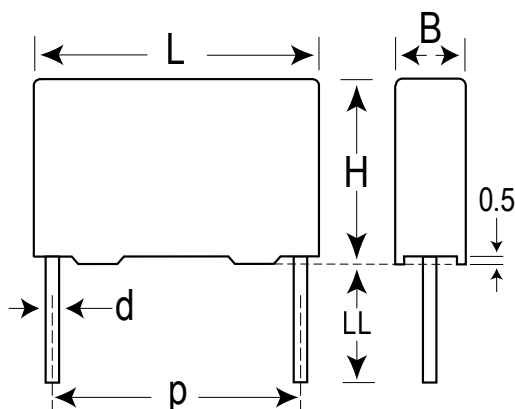
Lead Spacing Nominal (mm)	Type of Leads and Packaging	Lead Length (mm)	Lead and Packaging Code
27.5	Standard Lead and Packaging Options		
	Bulk (Tray) – Short Leads	4 +2/-0	F
	Bulk (Tray) – Long Leads	17 +0/-1	H
	Other Lead and Packaging Options		
	Pizza Pack	4 +2/-0	Z
37.5	Standard Lead and Packaging Options		
	Bulk (Tray) – Short Leads	4 +2/-0	F
	Bulk (Tray) – Long Leads	17 +0/-1	H
	Other Lead and Packaging Options		
	Pizza Pack	4 +2/-0	Z

Dimensions – Millimeters



Size Code	p		B		H		L		d	
	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
JF	5.0	+/-0.4	2.5	Max	6.5	Max	7.2	Max	0.5	+/-0.05
JG	5.0	+/-0.4	3.5	Max	7.5	Max	7.2	Max	0.5	+/-0.05
JM	5.0	+/-0.4	4.5	Max	9.5	Max	7.2	Max	0.5	+/-0.05
JQ	5.0	+/-0.4	5.0	Max	10.0	Max	7.2	Max	0.5	+/-0.05
JT	5.0	+/-0.4	6.0	Max	11.0	Max	7.2	Max	0.5	+/-0.05
JU	5.0	+/-0.4	7.2	Max	13.0	Max	7.2	Max	0.5	+/-0.05
KE	7.5	+/-0.4	2.5	Max	6.0	Max	10.0	Max	0.6	+/-0.05
KF	7.5	+/-0.4	3.0	Max	8.0	Max	10.0	Max	0.6	+/-0.05
KG	7.5	+/-0.4	4.0	Max	8.0	Max	10.0	Max	0.6	+/-0.05
KJ	7.5	+/-0.4	5.0	Max	10.5	Max	10.0	Max	0.6	+/-0.05
KM	7.5	+/-0.4	6.0	Max	12.0	Max	10.5	Max	0.6	+/-0.05
AG	10.0	+/-0.4	4.0	Max	9.0	Max	13.0	Max	0.6	+/-0.05
AK	10.0	+/-0.4	5.0	Max	11.0	Max	13.0	Max	0.6	+/-0.05
AP	10.0	+/-0.4	6.0	Max	12.0	Max	13.0	Max	0.6	+/-0.05
BB	15.0	+/-0.4	4.0	Max	10.0	Max	18.0	Max	0.8	+/-0.05
BC	15.0	+/-0.4	5.0	Max	11.0	Max	18.0	Max	0.8	+/-0.05
BE	15.0	+/-0.4	5.5	Max	12.5	Max	18.0	Max	0.8	+/-0.05
BG	15.0	+/-0.4	6.0	Max	12.0	Max	18.0	Max	0.8	+/-0.05
BK	15.0	+/-0.4	7.5	Max	13.5	Max	18.0	Max	0.8	+/-0.05
BI	15.0	+/-0.4	6.0	Max	17.5	Max	18.0	Max	0.8	+/-0.05
BP	15.0	+/-0.4	8.5	Max	14.5	Max	18.0	Max	0.8	+/-0.05
BS	15.0	+/-0.4	10.0	Max	16.0	Max	18.0	Max	0.8	+/-0.05
BY	15.0	+/-0.4	11.0	Max	19.0	Max	18.0	Max	0.8	+/-0.05
DB	22.5	+/-0.4	6.0	Max	14.5	Max	26.0	Max	0.8	+/-0.05
DI	22.5	+/-0.4	7.0	Max	16.0	Max	26.0	Max	0.8	+/-0.05
DH	22.5	+/-0.4	8.0	Max	16.0	Max	26.0	Max	0.8	+/-0.05
DJ	22.5	+/-0.4	8.5	Max	17.0	Max	26.0	Max	0.8	+/-0.05
DM	22.5	+/-0.4	9.0	Max	18.5	Max	26.0	Max	0.8	+/-0.05
DO	22.5	+/-0.4	10.0	Max	18.5	Max	26.0	Max	0.8	+/-0.05
DP	22.5	+/-0.4	11.0	Max	20.0	Max	26.0	Max	0.8	+/-0.05
Note: See Ordering Options Table for lead length (LL) options.										

Dimensions – Millimeters cont'd

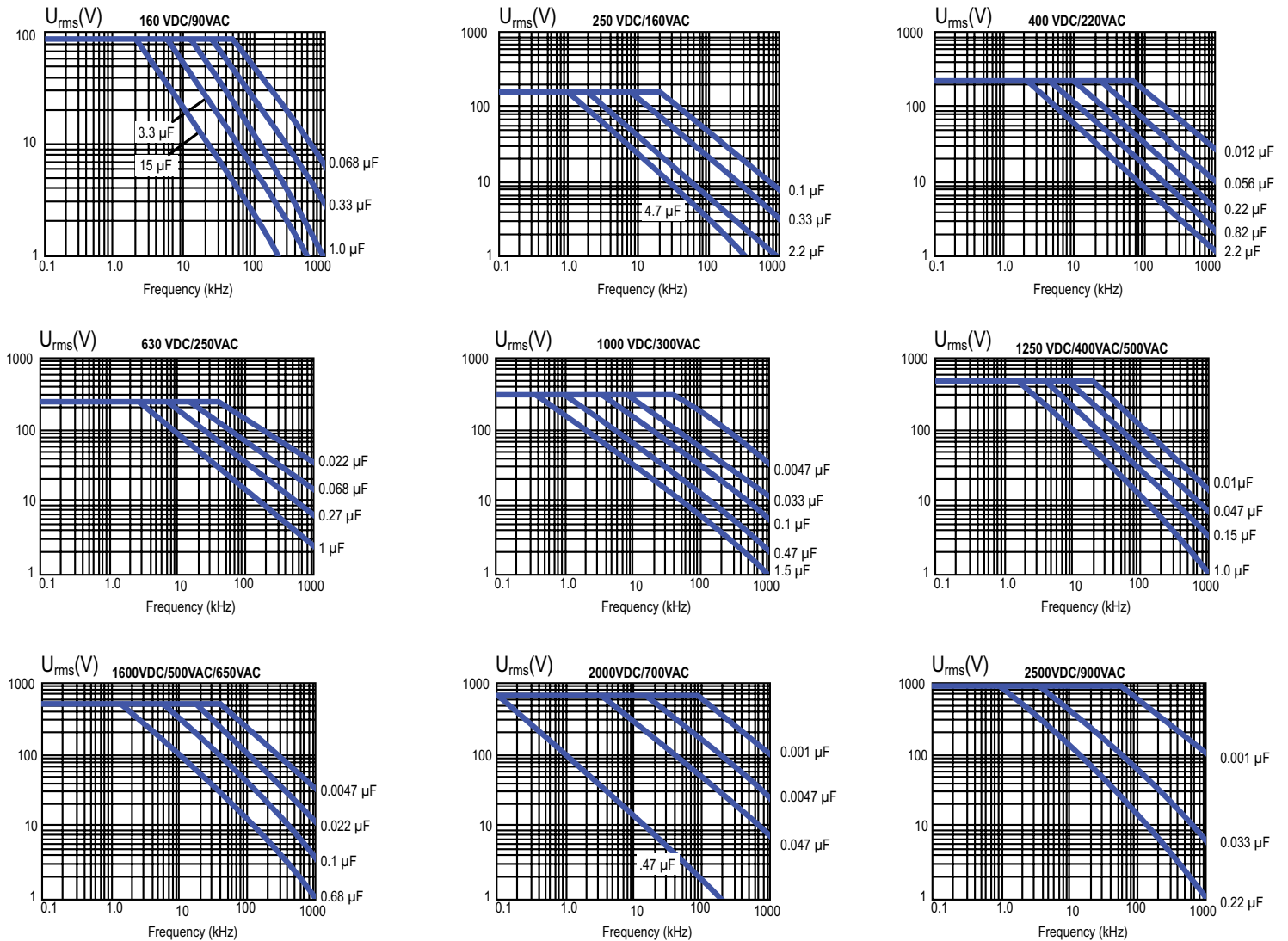


Size Code	p		B		H		L		d	
	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
DU	22.5	+/-0.4	13.0	Max	22.0	Max	26.0	Max	0.8	+/-0.05
DY	22.5	+/-0.4	15.5	Max	24.5	Max	26.0	Max	0.8	+/-0.05
FB	27.5	+/-0.4	9.0	Max	17.0	Max	31.5	Max	0.8	+/-0.05
FC	27.5	+/-0.4	11.0	Max	20.0	Max	31.5	Max	0.8	+/-0.05
FI	27.5	+/-0.4	13.0	Max	25.0	Max	31.5	Max	0.8	+/-0.05
FN	27.5	+/-0.4	14.0	Max	28.0	Max	31.5	Max	0.8	+/-0.05
FR	27.5	+/-0.4	17.5	Max	28.0	Max	31.5	Max	0.8	+/-0.05
FS	27.5	+/-0.4	19.0	Max	29.0	Max	31.5	Max	0.8	+/-0.05
FY	27.5	+/-0.4	22.0	Max	37.0	Max	31.5	Max	0.8	+/-0.05
RB	37.5	+/-0.5	11.0	Max	22.0	Max	41.0	Max	1	+/-0.05
RF	37.5	+/-0.5	13.0	Max	24.0	Max	41.0	Max	1	+/-0.05
RH	37.5	+/-0.5	15.0	Max	26.0	Max	41.0	Max	1	+/-0.05
RC	37.5	+/-0.5	16.0	Max	28.5	Max	41.0	Max	1	+/-0.05
RD	37.5	+/-0.5	19.0	Max	32.0	Max	41.0	Max	1	+/-0.05
RP	37.5	+/-0.5	21.0	Max	38.0	Max	41.0	Max	1	+/-0.05
RO	37.5	+/-0.5	24.0	Max	44.0	Max	41.0	Max	1	+/-0.05
RU	37.5	+/-0.5	30.0	Max	45.0	Max	41.0	Max	1	+/-0.05
Note: See Ordering Options Table for lead length (LL) options.										

Performance Characteristics

Series	F461	F461	F461	F461	F462	F462	F463	F462	F463	F463	F464
Sections	1	1	1	1	2	2	3	2	3	3	4
Voltage Range (VDC)	160	250	400	630	1000	1250	1250	1600	1600	2000	2500
Voltage Range (VAC)	90	160	220	250	300	400	500	500	650	700	900
Capacitance Range (μF)	0.01 – 56	0.01 – 39	0.0033 – 18	0.0015 – 8.2	0.0047 – 3.9	0.0033 – 2.7	0.0047 – 2.2	0.001 – 1.5	0.0033 – 1.5	0.0010 – 0.82	0.001 – 0.56
Capacitance Values	In accordance with IEC E12 series										
Capacitance Tolerance	±5%, ±10%, other tolerances on request										
Category Temperature Range	-55°C to +105°C										
Rated Temperature	+85°C										
Voltage Derating DC	The rated voltage is decreased with 2.0%/°C between +85°C and +105°C										
Voltage Derating AC	The voltage is decreased with 1.25%/°C between +85°C and +105°C										
Climatic Category	IEC 60068–1, 55/105/56										
Passive Flammability	Category B or C according to IEC 60384–1 depending on size										
Maximum Pulse Steepness	dV/dt according to Table 1. For peak to peak voltages lower than rated voltage ($V_{PP} < V_R$), the specified dV/dt can be multiplied by the factor V_R/V_{PP} .										
Temperature Coefficient	-200 (+50, -100) ppm/°C (at 1 kHz)										
Self-Inductance	Approximately 6 nH/cm for the total length of capacitor winding and the leads										
Dissipation Factor tanδ	Maximum values at +23°C										
		C ≤ 0.1 μF		0.1 μF < C ≤ 1.0 μF		C > 1.0 μF					
	1 kHz	0.0004		0.0005		0.001					
	10 kHz	0.0006		0.0006		–					
	100 kHz	0.0025		–		–					
Insulation Resistance	Measured at +23°C, 100 VDC 60 seconds for $V_R < 500$ VDC and at 500 VDC for $V_R \geq 500$ VDC										
	Between Terminals										
	C ≤ 0.33 μF				≥ 100,000 MΩ						
	C > 0.33 μF				≥ 30,000 MΩ • μF						
	Between Terminals and Case										
					≥ 100,000 MΩ						

Derating of V_{rms} vs. Frequency, +85°C Ambient Temperature & 10°C Internal Heating, Typical Values



Environmental Test Data

Test	IEC Publication	Procedure	Requirements
Voltage Proof	60384-1 Clause 4.6	$1.6 \times V_R$ after 60 seconds	The capacitors must withstand the voltage without breakdowns or flashovers and without decreased insulation resistance below the value in each detail specification. No visible damage.
	Clause 4.6 2.3	$2 \times V_R$ (min 400 VDC to case) after 60 seconds	As above
Vibration	60068-2-6 Test Fc	6 hours with 10 – 500 Hz and 0.75 mm amplitude or 98 m/s ² depending on frequency	No visible damage. $\tan\delta \leq 1.2 \times$ stated value at 100 kHz $\Delta C/C \leq \pm 0.5 \%$
Bump	60068-2-29 Test Eb	4,000 bumps with 390 m/s ² mounted on PCB	$\Delta C/C \leq \pm 0.5 \%$ $\tan\delta \leq 1.2 \times$ stated value at 100 kHz Insulation resistance: $\geq 100,000 \text{ M}\Omega$ for $C_R \leq 0.33 \mu\text{F}$ $\geq 30,000 \text{ M}\Omega \cdot \mu\text{F}$ for $C_R > 0.33 \mu\text{F}$
Resistance to Soldering Heat*	60068-2-20 Method 1A	Solder bath at $+260^\circ\text{C} \pm 5^\circ\text{C}$ with screening	Immersion of the terminations into the solder bath shall be completed in a time not exceeding 1 second and the terminations shall remain immersed to the specified depth for 10 + 1 second and then be withdrawn. $\Delta C/C \leq \pm 1.0\%$ $\tan\delta$ increase < 0.001 No visible damage.
Climatic Sequence	60384-1 Para. 4:21	60068-2.2 dry heat 16 hours 60068-2-34 damp heat, one cycle, 60068-2-1 Test Aa 2 hours	Insulation resistance: $\geq 100,000 \text{ M}\Omega$ for $C_R \leq 0.33 \mu\text{F}$ $\geq 30,000 \text{ M}\Omega \cdot \mu\text{F}$ for $C_R > 0.33 \mu\text{F}$ $\Delta C/C \leq \pm 0.5 \%$ $\tan\delta \leq 1.2 \times$ stated value at 100 kHz
Damp Heat Steady State	60068-2-3 Test Ca	$+40^\circ\text{C}$ and 90 – 95% RH	56 days No visible damage. Insulation resistance: $\geq 50,000 \text{ M}\Omega$ for $C_R \leq 0.33 \mu\text{F}$ $\geq 15,000 \text{ M}\Omega \cdot \mu\text{F}$ for $C_R > 0.33 \mu\text{F}$ $\Delta C/C \leq \pm 1\%$ $\tan\delta \leq 1.2 \times$ stated value at 100 kHz
Endurance, AC		1,000 hours at $+85^\circ\text{C}$ and $1.25 \times V_R$ AC	No visible damage. $\Delta C/C \leq \pm 3\%$ $\tan\delta \leq 1.5 \times$ stated value at 100 kHz Insulation resistance: $\geq 100,000 \text{ M}\Omega$ for $C_R \leq 0.33 \mu\text{F}$ $\geq 30,000 \text{ M}\Omega \cdot \mu\text{F}$ for $C_R > 0.33 \mu\text{F}$
Charge and Discharge	60384-17 Para. 4.13	10,000 pulses and with (2 x) dV/dt according to detail specification	$\tan\delta$ (100 kHz) $\leq 2 \times$ stated value (100 kHz) $\Delta C/C \leq \pm 0.5\%$ Insulation resistance: $\geq 50,000 \text{ M}\Omega$ for $C_R \leq 0.33 \mu\text{F}$ $\geq 15,000 \text{ M}\Omega \cdot \mu\text{F}$ for $C_R > 0.33 \mu\text{F}$

Environmental Compliance

All KEMET EMI capacitors are RoHS Compliant and Halogen Free.



RoHS Compliant



Table 1 – Ratings & Part Number Reference

VDC	VAC	Cap Value (μF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/μs)	Part Number
				B	H	L			
160	90	0.01	JF	2.5	6.5	7.2	5.0	100	F461JF103(1)160(2)
160	90	0.012	JF	2.5	6.5	7.2	5.0	100	F461JF123(1)160(2)
160	90	0.015	JF	2.5	6.5	7.2	5.0	100	F461JF153(1)160(2)
160	90	0.018	JF	2.5	6.5	7.2	5.0	100	F461JF183(1)160(2)
160	90	0.022	JG	3.5	7.5	7.2	5.0	100	F461JG223(1)160(2)
160	90	0.027	JG	3.5	7.5	7.2	5.0	100	F461JG273(1)160(2)
160	90	0.033	JG	3.5	7.5	7.2	5.0	100	F461JG333(1)160(2)
160	90	0.039	JG	3.5	7.5	7.2	5.0	100	F461JG393(1)160(2)
160	90	0.047	JM	4.5	9.5	7.2	5.0	100	F461JM473(1)160(2)
160	90	0.056	JM	4.5	9.5	7.2	5.0	100	F461JM563(1)160(2)
160	90	0.068	JM	4.5	9.5	7.2	5.0	100	F461JM683(1)160(2)
160	90	0.082	JM	4.5	9.5	7.2	5.0	100	F461JM823(1)160(2)
160	90	0.1	JT	6.0	11.0	7.2	5.0	100	F461JT104(1)160(2)
160	90	0.12	JT	6.0	11.0	7.2	5.0	100	F461JT124(1)160(2)
160	90	0.15	JU	7.2	13.0	7.2	5.0	100	F461JU154(1)160(2)
160	90	0.18	JU	7.2	13.0	7.2	5.0	100	F461JU184(1)160(2)
160	90	0.22	JU	7.2	13.0	7.2	5.0	100	F461JU224(1)160(2)
160	90	0.015	KE	2.5	6.0	10.0	7.5	300	F461KE153(1)160(2)
160	90	0.018	KE	2.5	6.0	10.0	7.5	300	F461KE183(1)160(2)
160	90	0.022	KE	2.5	6.0	10.0	7.5	300	F461KE223(1)160(2)
160	90	0.027	KF	3.0	8.0	10.0	7.5	300	F461KF273(1)160(2)
160	90	0.033	KF	3.0	8.0	10.0	7.5	300	F461KF333(1)160(2)
160	90	0.039	KF	3.0	8.0	10.0	7.5	300	F461KF393(1)160(2)
160	90	0.047	KF	3.0	8.0	10.0	7.5	300	F461KF473(1)160(2)
160	90	0.056	KF	3.0	8.0	10.0	7.5	300	F461KF563(1)160(2)
160	90	0.068	KG	4.0	8.0	10.0	7.5	300	F461KG683(1)160(2)
160	90	0.082	KG	4.0	8.0	10.0	7.5	300	F461KG823(1)160(2)
160	90	0.1	KJ	5.0	10.5	10.0	7.5	300	F461KJ104(1)160(2)
160	90	0.12	KJ	5.0	10.5	10.0	7.5	300	F461KJ124(1)160(2)
160	90	0.15	KJ	5.0	10.5	10.0	7.5	300	F461KJ154(1)160(2)
160	90	0.18	KJ	5.0	10.5	10.0	7.5	300	F461KJ184(1)160(2)
160	90	0.22	KM	6.0	12.0	10.5	7.5	300	F461KM224(1)160(2)
160	90	0.27	KM	6.0	12.0	10.5	7.5	300	F461KM274(1)160(2)
160	90	0.1	AG	4.0	9.0	13.0	10.0	180	F461AG104(1)160(2)
160	90	0.12	AG	4.0	9.0	13.0	10.0	180	F461AG124(1)160(2)
160	90	0.15	AG	4.0	9.0	13.0	10.0	180	F461AG154(1)160(2)
160	90	0.18	AK	5.0	11.0	13.0	10.0	180	F461AK184(1)160(2)
160	90	0.22	AK	5.0	11.0	13.0	10.0	180	F461AK224(1)160(2)
160	90	0.27	AK	5.0	11.0	13.0	10.0	180	F461AK274(1)160(2)
160	90	0.33	AP	6.0	12.0	13.0	10.0	180	F461AP334(1)160(2)
160	90	0.39	AP	6.0	12.0	13.0	10.0	180	F461AP394(1)160(2)
160	90	0.47	AP	6.0	12.0	13.0	10.0	180	F461AP474(1)160(2)
160	90	0.15	BB	4.0	10.0	18.0	15.0	100	F461BB154(1)160(2)
160	90	0.18	BB	4.0	10.0	18.0	15.0	100	F461BB184(1)160(2)
160	90	0.22	BB	4.0	10.0	18.0	15.0	100	F461BB224(1)160(2)
160	90	0.27	BB	4.0	10.0	18.0	15.0	100	F461BB274(1)160(2)
160	90	0.33	BC	5.0	11.0	18.0	15.0	100	F461BC334(1)160(2)
160	90	0.39	BC	5.0	11.0	18.0	15.0	100	F461BC394(1)160(2)
160	90	0.47	BE	5.5	12.5	18.0	15.0	100	F461BE474(1)160(2)
160	90	0.56	BE	5.5	12.5	18.0	15.0	100	F461BE564(1)160(2)
160	90	0.68	BK	7.5	13.5	18.0	15.0	100	F461BK684(1)160(2)
160	90	0.82	BK	7.5	13.5	18.0	15.0	100	F461BK824(1)160(2)
160	90	1.0	BK	7.5	13.5	18.0	15.0	100	F461BK105(1)160(2)
160	90	1.2	BP	8.5	14.5	18.0	15.0	100	F461BP125(1)160(2)
160	90	1.5	BS	10.0	16.0	18.0	15.0	100	F461BS155(1)160(2)
160	90	2.2	BY	11.0	19.0	18.0	15.0	100	F461BY225(1)160(2)
160	90	2.7	BY	11.0	19.0	18.0	15.0	100	F461BY275(1)160(2)
160	90	1.0	DB	6.0	14.5	26.0	22.5	60	F461DB105(1)160(2)
160	90	1.2	DB	6.0	14.5	26.0	22.5	60	F461DB125(1)160(2)
160	90	1.5	DI	7.0	16.0	26.0	22.5	60	F461DI155(1)160(2)
VDC	VAC	Cap Value (μF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/μs)	Part Number

(1) J = 5%, K = 10%, other tolerances on request.

(2) Insert lead and packaging code. See Ordering Options Table for available options.

Table 1 – Ratings & Part Number Reference cont'd

VDC	VAC	Cap Value (μF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/μs)	Part Number
				B	H	L			
160	90	1.8	DI	7.0	16.0	26.0	22.5	60	F461DI185(1)160(2)
160	90	2.2	DJ	8.5	17.0	26.0	22.5	60	F461DJ225(1)160(2)
160	90	2.7	DM	9.0	18.5	26.0	22.5	60	F461DM275(1)160(2)
160	90	3.3	DM	9.0	18.5	26.0	22.5	60	F461DM335(1)160(2)
160	90	3.9	DP	11.0	20.0	26.0	22.5	60	F461DP395(1)160(2)
160	90	4.7	DU	13.0	22.0	26.0	22.5	60	F461DU475(1)160(2)
160	90	5.6	DU	13.0	22.0	26.0	22.5	60	F461DU565(1)160(2)
160	90	6.8	DY	15.5	24.5	26.0	22.5	60	F461DY685(1)160(2)
160	90	8.2	DY	15.5	24.5	26.0	22.5	60	F461DY825(1)160(2)
160	90	2.2	FB	9.0	17.0	31.5	27.5	50	F461FB225(1)160(2)
160	90	2.7	FB	9.0	17.0	31.5	27.5	50	F461FB275(1)160(2)
160	90	3.3	FB	9.0	17.0	31.5	27.5	50	F461FB335(1)160(2)
160	90	3.9	FC	11.0	20.0	31.5	27.5	50	F461FC395(1)160(2)
160	90	4.7	FC	11.0	20.0	31.5	27.5	50	F461FC475(1)160(2)
160	90	5.6	FI	13.0	25.0	31.5	27.5	50	F461FI565(1)160(2)
160	90	6.8	FI	13.0	25.0	31.5	27.5	50	F461FI685(1)160(2)
160	90	8.2	FI	13.0	25.0	31.5	27.5	50	F461FI825(1)160(2)
160	90	10.0	FR	17.5	28.0	31.5	27.5	50	F461FR106(1)160(2)
160	90	12.0	FR	17.5	28.0	31.5	27.5	50	F461FR126(1)160(2)
160	90	15.0	FY	22.0	37.0	31.5	27.5	50	F461FY156(1)160(2)
160	90	18.0	FY	22.0	37.0	31.5	27.5	50	F461FY186(1)160(2)
160	90	22.0	FY	22.0	37.0	31.5	27.5	50	F461FY226(1)160(2)
160	90	6.8	RB	11.0	22.0	41.0	37.5	35	F461RB685(1)160(2)
160	90	8.2	RB	11.0	22.0	41.0	37.5	35	F461RB825(1)160(2)
160	90	10.0	RF	13.0	24.0	41.0	37.5	35	F461RF106(1)160(2)
160	90	12.0	RH	15.0	26.0	41.0	37.5	35	F461RH126(1)160(2)
160	90	15.0	RC	16.0	28.5	41.0	37.5	35	F461RC156(1)160(2)
160	90	18.0	RD	19.0	32.0	41.0	37.5	35	F461RD186(1)160(2)
160	90	22.0	RD	19.0	32.0	41.0	37.5	35	F461RD226(1)160(2)
160	90	27.0	RP	21.0	38.0	41.0	37.5	35	F461RP276(1)160(2)
160	90	33.0	RO	24.0	44.0	41.0	37.5	35	F461RO336(1)160(2)
160	90	39.0	RO	24.0	44.0	41.0	37.5	35	F461RO396(1)160(2)
160	90	47.0	RU	30.0	45.0	41.0	37.5	35	F461RU476(1)160(2)
160	90	56.0	RU	30.0	45.0	41.0	37.5	35	F461RU566(1)160(2)
250	160	0.01	JF	2.5	6.5	7.2	5.0	250	F461JF103(1)250(2)
250	160	0.012	JF	2.5	6.5	7.2	5.0	250	F461JF123(1)250(2)
250	160	0.015	JF	2.5	6.5	7.2	5.0	250	F461JF153(1)250(2)
250	160	0.022	JG	3.5	7.5	7.2	5.0	250	F461JG223(1)250(2)
250	160	0.027	JG	3.5	7.5	7.2	5.0	250	F461JG273(1)250(2)
250	160	0.033	JM	4.5	9.5	7.2	5.0	250	F461JM333(1)250(2)
250	160	0.039	JM	4.5	9.5	7.2	5.0	250	F461JM393(1)250(2)
250	160	0.047	JQ	5.0	10.0	7.2	5.0	250	F461JQ473(1)250(2)
250	160	0.056	JQ	5.0	10.0	7.2	5.0	250	F461JQ563(1)250(2)
250	160	0.068	JT	6.0	11.0	7.2	5.0	250	F461JT683(1)250(2)
250	160	0.082	JT	6.0	11.0	7.2	5.0	250	F461JT823(1)250(2)
250	160	0.1	JU	7.2	13.0	7.2	5.0	250	F461JU104(1)250(2)
250	160	0.12	JU	7.2	13.0	7.2	5.0	250	F461JU124(1)250(2)
250	160	0.15	JU	7.2	13.0	7.2	5.0	250	F461JU154(1)250(2)
250	160	0.01	KE	2.5	6.0	10.0	7.5	650	F461KE103(1)250(2)
250	160	0.012	KE	2.5	6.0	10.0	7.5	650	F461KE123(1)250(2)
250	160	0.015	KF	3.0	8.0	10.0	7.5	650	F461KF153(1)250(2)
250	160	0.018	KF	3.0	8.0	10.0	7.5	650	F461KF183(1)250(2)
250	160	0.022	KF	3.0	8.0	10.0	7.5	650	F461KF223(1)250(2)
250	160	0.027	KF	3.0	8.0	10.0	7.5	650	F461KF273(1)250(2)
250	160	0.033	KF	3.0	8.0	10.0	7.5	650	F461KF333(1)250(2)
250	160	0.039	KG	4.0	8.0	10.0	7.5	650	F461KG393(1)250(2)
250	160	0.047	KG	4.0	8.0	10.0	7.5	650	F461KG473(1)250(2)
250	160	0.056	KG	4.0	8.0	10.0	7.5	650	F461KG563(1)250(2)
250	160	0.068	KJ	5.0	10.5	10.0	7.5	650	F461KJ683(1)250(2)
250	160	0.082	KJ	5.0	10.5	10.0	7.5	650	F461KJ823(1)250(2)
VDC	VAC	Cap Value (μF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/μs)	Part Number

(1) J = 5%, K = 10%, other tolerances on request.

(2) Insert lead and packaging code. See Ordering Options Table for available options.

Table 1 – Ratings & Part Number Reference cont'd

VDC	VAC	Cap Value (µF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/µs)	Part Number
				B	H	L			
250	160	0.1	KJ	5.0	10.5	10.0	7.5	650	F461KJ104(1)250(2)
250	160	0.12	KM	6.0	12.0	10.5	7.5	650	F461KM124(1)250(2)
250	160	0.15	KM	6.0	12.0	10.5	7.5	650	F461KM154(1)250(2)
250	160	0.068	AG	4.0	9.0	13.0	10.0	550	F461AG683(1)250(2)
250	160	0.082	AG	4.0	9.0	13.0	10.0	550	F461AG823(1)250(2)
250	160	0.1	AG	4.0	9.0	13.0	10.0	550	F461AG104(1)250(2)
250	160	0.12	AK	5.0	11.0	13.0	10.0	550	F461AK124(1)250(2)
250	160	0.15	AK	5.0	11.0	13.0	10.0	550	F461AK154(1)250(2)
250	160	0.18	AK	5.0	11.0	13.0	10.0	550	F461AK184(1)250(2)
250	160	0.22	AK	5.0	11.0	13.0	10.0	550	F461AK224(1)250(2)
250	160	0.27	AP	6.0	12.0	13.0	10.0	550	F461AP274(1)250(2)
250	160	0.1	BB	4.0	10.0	18.0	15.0	300	F461BB104(1)250(2)
250	160	0.12	BB	4.0	10.0	18.0	15.0	300	F461BB124(1)250(2)
250	160	0.15	BB	4.0	10.0	18.0	15.0	300	F461BB154(1)250(2)
250	160	0.18	BB	4.0	10.0	18.0	15.0	300	F461BB184(1)250(2)
250	160	0.22	BC	5.0	11.0	18.0	15.0	300	F461BC224(1)250(2)
250	160	0.27	BC	5.0	11.0	18.0	15.0	300	F461BC274(1)250(2)
250	160	0.33	BG	6.0	12.0	18.0	15.0	300	F461BG334(1)250(2)
250	160	0.39	BK	7.5	13.5	18.0	15.0	300	F461BK394(1)250(2)
250	160	0.47	BK	7.5	13.5	18.0	15.0	300	F461BK474(1)250(2)
250	160	0.56	BK	7.5	13.5	18.0	15.0	300	F461BK564(1)250(2)
250	160	0.68	BP	8.5	14.5	18.0	15.0	300	F461BP684(1)250(2)
250	160	0.82	BP	8.5	14.5	18.0	15.0	300	F461BP824(1)250(2)
250	160	1.0	BS	10.0	16.0	18.0	15.0	300	F461BS105(1)250(2)
250	160	1.2	BY	11.0	19.0	18.0	15.0	300	F461BY125(1)250(2)
250	160	1.5	BY	11.0	19.0	18.0	15.0	300	F461BY155(1)250(2)
250	160	1.8	BY	11.0	19.0	18.0	15.0	300	F461BY185(1)250(2)
250	160	0.47	DB	6.0	14.5	26.0	22.5	125	F461DB474(1)250(2)
250	160	0.56	DB	6.0	14.5	26.0	22.5	125	F461DB564(1)250(2)
250	160	0.68	DB	6.0	14.5	26.0	22.5	125	F461DB684(1)250(2)
250	160	0.82	DI	7.0	16.0	26.0	22.5	125	F461DI824(1)250(2)
250	160	1.0	DI	7.0	16.0	26.0	22.5	125	F461DI105(1)250(2)
250	160	1.2	DH	8.0	16.0	26.0	22.5	125	F461DH125(1)250(2)
250	160	1.5	DM	9.0	18.5	26.0	22.5	125	F461DM155(1)250(2)
250	160	1.8	DM	9.0	18.5	26.0	22.5	125	F461DM185(1)250(2)
250	160	2.2	DO	10.0	18.5	26.0	22.5	125	F461DO225(1)250(2)
250	160	2.7	DU	13.0	22.0	26.0	22.5	125	F461DU275(1)250(2)
250	160	3.3	DU	13.0	22.0	26.0	22.5	125	F461DU335(1)250(2)
250	160	3.9	DY	15.5	24.5	26.0	22.5	125	F461DY395(1)250(2)
250	160	4.7	DY	15.5	24.5	26.0	22.5	125	F461DY475(1)250(2)
250	160	5.6	DY	15.5	24.5	26.0	22.5	125	F461DY565(1)250(2)
250	160	1.5	FB	9.0	17.0	31.5	27.5	100	F461FB155(1)250(2)
250	160	1.8	FB	9.0	17.0	31.5	27.5	100	F461FB185(1)250(2)
250	160	2.2	FC	11.0	20.0	31.5	27.5	100	F461FC225(1)250(2)
250	160	2.7	FC	11.0	20.0	31.5	27.5	100	F461FC275(1)250(2)
250	160	3.3	FC	11.0	20.0	31.5	27.5	100	F461FC335(1)250(2)
250	160	3.9	FI	13.0	25.0	31.5	27.5	100	F461FI395(1)250(2)
250	160	4.7	FI	13.0	25.0	31.5	27.5	100	F461FI475(1)250(2)
250	160	5.6	FN	14.0	28.0	31.5	27.5	100	F461FN565(1)250(2)
250	160	6.8	FR	17.5	28.0	31.5	27.5	100	F461FR685(1)250(2)
250	160	8.2	FS	19.0	29.0	31.5	27.5	100	F461FS825(1)250(2)
250	160	10.0	FY	22.0	37.0	31.5	27.5	100	F461FY106(1)250(2)
250	160	12.0	FY	22.0	37.0	31.5	27.5	100	F461FY126(1)250(2)
250	160	15.0	FY	22.0	37.0	31.5	27.5	100	F461FY156(1)250(2)
250	160	3.3	RB	11.0	22.0	41.0	37.5	40	F461RB335(1)250(2)
250	160	3.9	RB	11.0	22.0	41.0	37.5	40	F461RB395(1)250(2)
250	160	4.7	RB	11.0	22.0	41.0	37.5	40	F461RB475(1)250(2)
250	160	5.6	RF	13.0	24.0	41.0	37.5	40	F461RF565(1)250(2)
250	160	6.8	RF	13.0	24.0	41.0	37.5	40	F461RF685(1)250(2)
250	160	8.2	RH	15.0	26.0	41.0	37.5	40	F461RH825(1)250(2)
VDC	VAC	Cap Value (µF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/µs)	Part Number

(1) J = 5%, K = 10%, other tolerances on request.

(2) Insert lead and packaging code. See Ordering Options Table for available options.

Table 1 – Ratings & Part Number Reference cont'd

VDC	VAC	Cap Value (μF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/μs)	Part Number
				B	H	L			
250	160	10.0	RC	16.0	28.5	41.0	37.5	40	F461RC106(1)250(2)
250	160	12.0	RD	19.0	32.0	41.0	37.5	40	F461RD126(1)250(2)
250	160	15.0	RD	19.0	32.0	41.0	37.5	40	F461RD156(1)250(2)
250	160	18.0	RP	21.0	38.0	41.0	37.5	40	F461RP186(1)250(2)
250	160	22.0	RO	24.0	44.0	41.0	37.5	40	F461RO226(1)250(2)
250	160	27.0	RO	24.0	44.0	41.0	37.5	40	F461RO276(1)250(2)
250	160	33.0	RU	30.0	45.0	41.0	37.5	40	F461RU336(1)250(2)
250	160	39.0	RU	30.0	45.0	41.0	37.5	40	F461RU396(1)250(2)
400	220	0.0033	JF	2.5	6.5	7.2	5.0	400	F461JF332(1)400(2)
400	220	0.0039	JF	2.5	6.5	7.2	5.0	400	F461JF392(1)400(2)
400	220	0.0047	JF	2.5	6.5	7.2	5.0	400	F461JF472(1)400(2)
400	220	0.0056	JF	2.5	6.5	7.2	5.0	400	F461JF562(1)400(2)
400	220	0.0068	JG	3.5	7.5	7.2	5.0	400	F461JG682(1)400(2)
400	220	0.0082	JG	3.5	7.5	7.2	5.0	400	F461JG822(1)400(2)
400	220	0.01	JG	3.5	7.5	7.2	5.0	400	F461JG103(1)400(2)
400	220	0.012	JG	3.5	7.5	7.2	5.0	400	F461JG123(1)400(2)
400	220	0.015	JM	4.5	9.5	7.2	5.0	400	F461JM153(1)400(2)
400	220	0.018	JM	4.5	9.5	7.2	5.0	400	F461JM183(1)400(2)
400	220	0.022	JM	4.5	9.5	7.2	5.0	400	F461JM223(1)400(2)
400	220	0.027	JQ	5.0	10.0	7.2	5.0	400	F461JQ273(1)400(2)
400	220	0.033	JT	6.0	11.0	7.2	5.0	400	F461JT333(1)400(2)
400	220	0.039	JT	6.0	11.0	7.2	5.0	400	F461JT393(1)400(2)
400	220	0.047	JU	7.2	13.0	7.2	5.0	400	F461JU473(1)400(2)
400	220	0.056	JU	7.2	13.0	7.2	5.0	400	F461JU563(1)400(2)
400	220	0.0033	KE	2.5	6.0	10.0	7.5	1500	F461KE332(1)400(2)
400	220	0.0039	KE	2.5	6.0	10.0	7.5	1500	F461KE392(1)400(2)
400	220	0.0047	KE	2.5	6.0	10.0	7.5	1500	F461KE472(1)400(2)
400	220	0.0056	KF	3.0	8.0	10.0	7.5	1500	F461KF562(1)400(2)
400	220	0.0068	KF	3.0	8.0	10.0	7.5	1500	F461KF682(1)400(2)
400	220	0.0082	KF	3.0	8.0	10.0	7.5	1500	F461KF822(1)400(2)
400	220	0.01	KF	3.0	8.0	10.0	7.5	1500	F461KF103(1)400(2)
400	220	0.012	KF	3.0	8.0	10.0	7.5	1500	F461KF123(1)400(2)
400	220	0.015	KG	4.0	8.0	10.0	7.5	1500	F461KG153(1)400(2)
400	220	0.018	KG	4.0	8.0	10.0	7.5	1500	F461KG183(1)400(2)
400	220	0.022	KG	4.0	8.0	10.0	7.5	1500	F461KG223(1)400(2)
400	220	0.027	KJ	5.0	10.5	10.0	7.5	1500	F461KJ273(1)400(2)
400	220	0.033	KJ	5.0	10.5	10.0	7.5	1500	F461KJ333(1)400(2)
400	220	0.039	KJ	5.0	10.5	10.0	7.5	1500	F461KJ393(1)400(2)
400	220	0.047	KJ	5.0	10.5	10.0	7.5	1500	F461KJ473(1)400(2)
400	220	0.056	KM	6.0	12.0	10.5	7.5	1500	F461KM563(1)400(2)
400	220	0.068	KM	6.0	12.0	10.5	7.5	1500	F461KM683(1)400(2)
400	220	0.022	AG	4.0	9.0	13.0	10.0	1300	F461AG223(1)400(2)
400	220	0.027	AG	4.0	9.0	13.0	10.0	1300	F461AG273(1)400(2)
400	220	0.033	AG	4.0	9.0	13.0	10.0	1300	F461AG333(1)400(2)
400	220	0.039	AG	4.0	9.0	13.0	10.0	1300	F461AG393(1)400(2)
400	220	0.047	AK	5.0	11.0	13.0	10.0	1300	F461AK473(1)400(2)
400	220	0.056	AK	5.0	11.0	13.0	10.0	1300	F461AK563(1)400(2)
400	220	0.068	AK	5.0	11.0	13.0	10.0	1300	F461AK683(1)400(2)
400	220	0.082	AK	5.0	11.0	13.0	10.0	1300	F461AK823(1)400(2)
400	220	0.1	AK	5.0	11.0	13.0	10.0	1300	F461AK104(1)400(2)
400	220	0.12	AP	6.0	12.0	13.0	10.0	1300	F461AP124(1)400(2)
400	220	0.047	BB	4.0	10.0	18.0	15.0	900	F461BB473(1)400(2)
400	220	0.056	BB	4.0	10.0	18.0	15.0	900	F461BB563(1)400(2)
400	220	0.068	BB	4.0	10.0	18.0	15.0	900	F461BB683(1)400(2)
400	220	0.082	BC	5.0	11.0	18.0	15.0	900	F461BC823(1)400(2)
400	220	0.1	BC	5.0	11.0	18.0	15.0	900	F461BC104(1)400(2)
400	220	0.12	BE	5.5	12.5	18.0	15.0	900	F461BE124(1)400(2)
400	220	0.15	BE	5.5	12.5	18.0	15.0	900	F461BE154(1)400(2)
400	220	0.18	BK	7.5	13.5	18.0	15.0	900	F461BK184(1)400(2)
400	220	0.22	BK	7.5	13.5	18.0	15.0	900	F461BK224(1)400(2)
VDC	VAC	Cap Value (μF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/μs)	Part Number

(1) J = 5%, K = 10%, other tolerances on request.

(2) Insert lead and packaging code. See Ordering Options Table for available options.

Table 1 – Ratings & Part Number Reference cont'd

VDC	VAC	Cap Value (µF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/µs)	Part Number
				B	H	L			
400	220	0.27	BK	7.5	13.5	18.0	15.0	900	F461BK274(1)400(2)
400	220	0.33	BI	6.0	17.5	18.0	15.0	900	F461BI334(1)400(2)
400	220	0.39	BS	10.0	16.0	18.0	15.0	900	F461BS394(1)400(2)
400	220	0.47	BS	10.0	16.0	18.0	15.0	900	F461BS474(1)400(2)
400	220	0.56	BY	11.0	19.0	18.0	15.0	900	F461BY564(1)400(2)
400	220	0.68	BY	11.0	19.0	18.0	15.0	900	F461BY684(1)400(2)
400	220	0.82	BY	11.0	19.0	18.0	15.0	900	F461BY824(1)400(2)
400	220	0.22	DB	6.0	14.5	26.0	22.5	300	F461DB224(1)400(2)
400	220	0.27	DB	6.0	14.5	26.0	22.5	300	F461DB274(1)400(2)
400	220	0.33	DB	6.0	14.5	26.0	22.5	300	F461DB334(1)400(2)
400	220	0.39	DI	7.0	16.0	26.0	22.5	300	F461DI394(1)400(2)
400	220	0.47	DI	7.0	16.0	26.0	22.5	300	F461DI474(1)400(2)
400	220	0.56	DH	8.0	16.0	26.0	22.5	300	F461DH564(1)400(2)
400	220	0.68	DM	9.0	18.5	26.0	22.5	300	F461DM684(1)400(2)
400	220	0.82	DM	9.0	18.5	26.0	22.5	300	F461DM824(1)400(2)
400	220	1.0	DP	11.0	20.0	26.0	22.5	300	F461DP105(1)400(2)
400	220	1.2	DP	11.0	20.0	26.0	22.5	300	F461DP125(1)400(2)
400	220	1.5	DU	13.0	22.0	26.0	22.5	300	F461DU155(1)400(2)
400	220	1.8	DY	15.5	24.5	26.0	22.5	300	F461DY185(1)400(2)
400	220	2.2	DY	15.5	24.5	26.0	22.5	300	F461DY225(1)400(2)
400	220	0.56	FB	9.0	17.0	31.5	27.5	130	F461FB564(1)400(2)
400	220	0.68	FB	9.0	17.0	31.5	27.5	130	F461FB684(1)400(2)
400	220	0.82	FB	9.0	17.0	31.5	27.5	130	F461FB824(1)400(2)
400	220	1.0	FC	11.0	20.0	31.5	27.5	130	F461FC105(1)400(2)
400	220	1.2	FC	11.0	20.0	31.5	27.5	130	F461FC125(1)400(2)
400	220	1.5	FC	11.0	20.0	31.5	27.5	130	F461FC155(1)400(2)
400	220	1.8	FI	13.0	25.0	31.5	27.5	130	F461FI185(1)400(2)
400	220	2.2	FI	13.0	25.0	31.5	27.5	130	F461FI225(1)400(2)
400	220	2.7	FN	14.0	28.0	31.5	27.5	130	F461FN275(1)400(2)
400	220	3.3	FR	17.5	28.0	31.5	27.5	130	F461FR335(1)400(2)
400	220	3.9	FS	19.0	29.0	31.5	27.5	130	F461FS395(1)400(2)
400	220	4.7	FY	22.0	37.0	31.5	27.5	130	F461FY475(1)400(2)
400	220	5.6	FY	22.0	37.0	31.5	27.5	130	F461FY565(1)400(2)
400	220	6.8	FY	22.0	37.0	31.5	27.5	130	F461FY685(1)400(2)
400	220	1.5	RB	11.0	22.0	41.0	37.5	70	F461RB155(1)400(2)
400	220	1.8	RB	11.0	22.0	41.0	37.5	70	F461RB185(1)400(2)
400	220	2.2	RB	11.0	22.0	41.0	37.5	70	F461RB225(1)400(2)
400	220	2.7	RF	13.0	24.0	41.0	37.5	70	F461RF275(1)400(2)
400	220	3.3	RF	13.0	24.0	41.0	37.5	70	F461RF335(1)400(2)
400	220	3.9	RH	15.0	26.0	41.0	37.5	70	F461RH395(1)400(2)
400	220	4.7	RC	16.0	28.5	41.0	37.5	70	F461RC475(1)400(2)
400	220	5.6	RD	19.0	32.0	41.0	37.5	70	F461RD565(1)400(2)
400	220	6.8	RD	19.0	32.0	41.0	37.5	70	F461RD685(1)400(2)
400	220	8.2	RP	21.0	38.0	41.0	37.5	70	F461RP825(1)400(2)
400	220	10.0	RO	24.0	44.0	41.0	37.5	70	F461RO106(1)400(2)
400	220	12.0	RO	24.0	44.0	41.0	37.5	70	F461RO126(1)400(2)
400	220	15.0	RU	30.0	45.0	41.0	37.5	70	F461RU156(1)400(2)
400	220	18.0	RU	30.0	45.0	41.0	37.5	70	F461RU186(1)400(2)
630	250	0.0015	JF	2.5	6.5	7.2	5.0	500	F461JF152(1)630(2)
630	250	0.0018	JF	2.5	6.5	7.2	5.0	500	F461JF182(1)630(2)
630	250	0.0022	JF	2.5	6.5	7.2	5.0	500	F461JF222(1)630(2)
630	250	0.0027	JF	2.5	6.5	7.2	5.0	500	F461JF272(1)630(2)
630	250	0.0033	JF	2.5	6.5	7.2	5.0	500	F461JF332(1)630(2)
630	250	0.0039	JG	3.5	7.5	7.2	5.0	500	F461JG392(1)630(2)
630	250	0.0047	JG	3.5	7.5	7.2	5.0	500	F461JG472(1)630(2)
630	250	0.0056	JG	3.5	7.5	7.2	5.0	500	F461JG562(1)630(2)
630	250	0.0068	JM	4.5	9.5	7.2	5.0	500	F461JM682(1)630(2)
630	250	0.0082	JM	4.5	9.5	7.2	5.0	500	F461JM822(1)630(2)
630	250	0.01	JM	4.5	9.5	7.2	5.0	500	F461JM103(1)630(2)
630	250	0.012	JQ	5.0	10.0	7.2	5.0	500	F461JQ123(1)630(2)
VDC	VAC	Cap Value (µF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/µs)	Part Number

(1) J = 5%, K = 10%, other tolerances on request.

(2) Insert lead and packaging code. See Ordering Options Table for available options.

Table 1 – Ratings & Part Number Reference cont'd

VDC	VAC	Cap Value (μF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/μs)	Part Number
				B	H	L			
630	250	0.015	JT	6.0	11.0	7.2	5.0	500	F461JT153(1)630(2)
630	250	0.018	JT	6.0	11.0	7.2	5.0	500	F461JT183(1)630(2)
630	250	0.022	JT	6.0	11.0	7.2	5.0	500	F461JT223(1)630(2)
630	250	0.027	JU	7.2	13.0	7.2	5.0	500	F461JU273(1)630(2)
630	250	0.033	JU	7.2	13.0	7.2	5.0	500	F461JU333(1)630(2)
630	250	0.0015	KE	2.5	6.0	10.0	7.5	2400	F461KE152(1)630(2)
630	250	0.0018	KE	2.5	6.0	10.0	7.5	2400	F461KE182(1)630(2)
630	250	0.0022	KE	2.5	6.0	10.0	7.5	2400	F461KE222(1)630(2)
630	250	0.0027	KF	3.0	8.0	10.0	7.5	2400	F461KF272(1)630(2)
630	250	0.0033	KF	3.0	8.0	10.0	7.5	2400	F461KF332(1)630(2)
630	250	0.0039	KF	3.0	8.0	10.0	7.5	2400	F461KF392(1)630(2)
630	250	0.0047	KF	3.0	8.0	10.0	7.5	2400	F461KF472(1)630(2)
630	250	0.0056	KF	3.0	8.0	10.0	7.5	2400	F461KF562(1)630(2)
630	250	0.0068	KF	3.0	8.0	10.0	7.5	2400	F461KF682(1)630(2)
630	250	0.0082	KG	4.0	8.0	10.0	7.5	2400	F461KG822(1)630(2)
630	250	0.01	KG	4.0	8.0	10.0	7.5	2400	F461KG103(1)630(2)
630	250	0.012	KJ	5.0	10.5	10.0	7.5	2400	F461KJ123(1)630(2)
630	250	0.015	KJ	5.0	10.5	10.0	7.5	2400	F461KJ153(1)630(2)
630	250	0.018	KJ	5.0	10.5	10.0	7.5	2400	F461KJ183(1)630(2)
630	250	0.022	KJ	5.0	10.5	10.0	7.5	2400	F461KJ223(1)630(2)
630	250	0.027	KM	6.0	12.0	10.5	7.5	2400	F461KM273(1)630(2)
630	250	0.033	KM	6.0	12.0	10.5	7.5	2400	F461KM333(1)630(2)
630	250	0.039	KM	6.0	12.0	10.5	7.5	2400	F461KM393(1)630(2)
630	250	0.01	AG	4.0	9.0	13.0	10.0	2000	F461AG103(1)630(2)
630	250	0.012	AG	4.0	9.0	13.0	10.0	2000	F461AG123(1)630(2)
630	250	0.015	AG	4.0	9.0	13.0	10.0	2000	F461AG153(1)630(2)
630	250	0.018	AG	4.0	9.0	13.0	10.0	2000	F461AG183(1)630(2)
630	250	0.022	AG	4.0	9.0	13.0	10.0	2000	F461AG223(1)630(2)
630	250	0.027	AK	5.0	11.0	13.0	10.0	2000	F461AK273(1)630(2)
630	250	0.033	AK	5.0	11.0	13.0	10.0	2000	F461AK333(1)630(2)
630	250	0.039	AK	5.0	11.0	13.0	10.0	2000	F461AK393(1)630(2)
630	250	0.047	AP	6.0	12.0	13.0	10.0	2000	F461AP473(1)630(2)
630	250	0.056	AP	6.0	12.0	13.0	10.0	2000	F461AP563(1)630(2)
630	250	0.068	AP	6.0	12.0	13.0	10.0	2000	F461AP683(1)630(2)
630	250	0.022	BB	4.0	10.0	18.0	15.0	1000	F461BB223(1)630(2)
630	250	0.027	BB	4.0	10.0	18.0	15.0	1000	F461BB273(1)630(2)
630	250	0.033	BB	4.0	10.0	18.0	15.0	1000	F461BB333(1)630(2)
630	250	0.039	BB	4.0	10.0	18.0	15.0	1000	F461BB393(1)630(2)
630	250	0.047	BC	5.0	11.0	18.0	15.0	1000	F461BC473(1)630(2)
630	250	0.056	BC	5.0	11.0	18.0	15.0	1000	F461BC563(1)630(2)
630	250	0.063	BC	5.0	11.0	18.0	15.0	1000	F461BC633(1)630(2)
630	250	0.068	BE	5.5	12.5	18.0	15.0	1000	F461BE683(1)630(2)
630	250	0.082	BE	5.5	12.5	18.0	15.0	1000	F461BE823(1)630(2)
630	250	0.1	BK	7.5	13.5	18.0	15.0	1000	F461BK104(1)630(2)
630	250	0.12	BK	7.5	13.5	18.0	15.0	1000	F461BK124(1)630(2)
630	250	0.15	BK	7.5	13.5	18.0	15.0	1000	F461BK154(1)630(2)
630	250	0.18	BP	8.5	14.5	18.0	15.0	1000	F461BP184(1)630(2)
630	250	0.22	BS	10.0	16.0	18.0	15.0	1000	F461BS224(1)630(2)
630	250	0.27	BY	11.0	19.0	18.0	15.0	1000	F461BY274(1)630(2)
630	250	0.33	BY	11.0	19.0	18.0	15.0	1000	F461BY334(1)630(2)
630	250	0.39	BY	11.0	19.0	18.0	15.0	1000	F461BY394(1)630(2)
630	250	0.1	DB	6.0	14.5	26.0	22.5	400	F461DB104(1)630(2)
630	250	0.12	DB	6.0	14.5	26.0	22.5	400	F461DB124(1)630(2)
630	250	0.15	DB	6.0	14.5	26.0	22.5	400	F461DB154(1)630(2)
630	250	0.18	DI	7.0	16.0	26.0	22.5	400	F461DI184(1)630(2)
630	250	0.22	DI	7.0	16.0	26.0	22.5	400	F461DI224(1)630(2)
630	250	0.27	DH	8.0	16.0	26.0	22.5	400	F461DH274(1)630(2)
630	250	0.33	DJ	8.5	17.0	26.0	22.5	400	F461DJ334(1)630(2)
630	250	0.39	DM	9.0	18.5	26.0	22.5	400	F461DM394(1)630(2)
630	250	0.47	DM	9.0	18.5	26.0	22.5	400	F461DM474(1)630(2)
VDC	VAC	Cap Value (μF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/μs)	Part Number

(1) J = 5%, K = 10%, other tolerances on request.

(2) Insert lead and packaging code. See Ordering Options Table for available options.

Table 1 – Ratings & Part Number Reference cont'd

VDC	VAC	Cap Value (µF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/µs)	Part Number
				B	H	L			
630	250	0.56	DP	11.0	20.0	26.0	22.5	400	F461DP564(1)630(2)
630	250	0.68	DU	13.0	22.0	26.0	22.5	400	F461DU684(1)630(2)
630	250	0.82	DU	13.0	22.0	26.0	22.5	400	F461DU824(1)630(2)
630	250	1.0	DY	15.5	24.5	26.0	22.5	400	F461DY105(1)630(2)
630	250	1.2	DY	15.5	24.5	26.0	22.5	400	F461DY125(1)630(2)
630	250	0.33	FB	9.0	17.0	31.5	27.5	180	F461FB334(1)630(2)
630	250	0.39	FB	9.0	17.0	31.5	27.5	180	F461FB394(1)630(2)
630	250	0.47	FB	9.0	17.0	31.5	27.5	180	F461FB474(1)630(2)
630	250	0.56	FC	11.0	20.0	31.5	27.5	180	F461FC564(1)630(2)
630	250	0.68	FC	11.0	20.0	31.5	27.5	180	F461FC684(1)630(2)
630	250	0.82	FC	11.0	20.0	31.5	27.5	180	F461FC824(1)630(2)
630	250	1.0	FI	13.0	25.0	31.5	27.5	180	F461FI105(1)630(2)
630	250	1.2	FI	13.0	25.0	31.5	27.5	180	F461FI125(1)630(2)
630	250	1.5	FN	14.0	28.0	31.5	27.5	180	F461FN155(1)630(2)
630	250	1.8	FR	17.5	28.0	31.5	27.5	180	F461FR185(1)630(2)
630	250	2.2	FS	19.0	29.0	31.5	27.5	180	F461FS225(1)630(2)
630	250	2.7	FY	22.0	37.0	31.5	27.5	180	F461FY275(1)630(2)
630	250	3.3	FY	22.0	37.0	31.5	27.5	180	F461FY335(1)630(2)
630	250	3.9	FY	22.0	37.0	31.5	27.5	180	F461FY395(1)630(2)
630	250	0.68	RB	11.0	22.0	41.0	37.5	90	F461RB684(1)630(2)
630	250	0.82	RB	11.0	22.0	41.0	37.5	90	F461RB824(1)630(2)
630	250	1.0	RB	11.0	22.0	41.0	37.5	90	F461RB105(1)630(2)
630	250	1.2	RB	11.0	22.0	41.0	37.5	90	F461RB125(1)630(2)
630	250	1.5	RF	13.0	24.0	41.0	37.5	90	F461RF155(1)630(2)
630	250	1.8	RF	13.0	24.0	41.0	37.5	90	F461RF185(1)630(2)
630	250	2.2	RH	15.0	26.0	41.0	37.5	90	F461RH225(1)630(2)
630	250	2.7	RC	16.0	28.5	41.0	37.5	90	F461RC275(1)630(2)
630	250	3.3	RD	19.0	32.0	41.0	37.5	90	F461RD335(1)630(2)
630	250	3.9	RP	21.0	38.0	41.0	37.5	90	F461RP395(1)630(2)
630	250	4.7	RP	21.0	38.0	41.0	37.5	90	F461RP475(1)630(2)
630	250	5.6	RO	24.0	44.0	41.0	37.5	90	F461RO565(1)630(2)
630	250	6.8	RO	24.0	44.0	41.0	37.5	90	F461RO685(1)630(2)
630	250	8.2	RU	30.0	45.0	41.0	37.5	90	F461RU825(1)630(2)
1000	300	0.0047	AG	4.0	9.0	13.0	10.0	2000	F462AG472(1)1K0(2)
1000	300	0.0056	AG	4.0	9.0	13.0	10.0	2000	F462AG562(1)1K0(2)
1000	300	0.0068	AG	4.0	9.0	13.0	10.0	2000	F462AG682(1)1K0(2)
1000	300	0.0082	AK	5.0	11.0	13.0	10.0	2000	F462AK822(1)1K0(2)
1000	300	0.01	AK	5.0	11.0	13.0	10.0	2000	F462AK103(1)1K0(2)
1000	300	0.012	AK	5.0	11.0	13.0	10.0	2000	F462AK123(1)1K0(2)
1000	300	0.015	AK	5.0	11.0	13.0	10.0	2000	F462AK153(1)1K0(2)
1000	300	0.018	AK	5.0	11.0	13.0	10.0	2000	F462AK183(1)1K0(2)
1000	300	0.022	AP	6.0	12.0	13.0	10.0	2000	F462AP223(1)1K0(2)
1000	300	0.01	BB	4.0	10.0	18.0	15.0	1600	F462BB103(1)1K0(2)
1000	300	0.012	BB	4.0	10.0	18.0	15.0	1600	F462BB123(1)1K0(2)
1000	300	0.015	BB	4.0	10.0	18.0	15.0	1600	F462BB153(1)1K0(2)
1000	300	0.018	BC	5.0	11.0	18.0	15.0	1600	F462BC183(1)1K0(2)
1000	300	0.022	BC	5.0	11.0	18.0	15.0	1600	F462BC223(1)1K0(2)
1000	300	0.027	BE	5.5	12.5	18.0	15.0	1600	F462BE273(1)1K0(2)
1000	300	0.033	BE	5.5	12.5	18.0	15.0	1600	F462BE333(1)1K0(2)
1000	300	0.039	BK	7.5	13.5	18.0	15.0	1600	F462BK393(1)1K0(2)
1000	300	0.047	BK	7.5	13.5	18.0	15.0	1600	F462BK473(1)1K0(2)
1000	300	0.056	BK	7.5	13.5	18.0	15.0	1600	F462BK563(1)1K0(2)
1000	300	0.068	BP	8.5	14.5	18.0	15.0	1600	F462BP683(1)1K0(2)
1000	300	0.082	BS	10.0	16.0	18.0	15.0	1600	F462BS823(1)1K0(2)
1000	300	0.1	BS	10.0	16.0	18.0	15.0	1600	F462BS104(1)1K0(2)
1000	300	0.12	BY	11.0	19.0	18.0	15.0	1600	F462BY124(1)1K0(2)
1000	300	0.15	BY	11.0	19.0	18.0	15.0	1600	F462BY154(1)1K0(2)
1000	300	0.047	DB	6.0	14.5	26.0	22.5	600	F462DB473(1)1K0(2)
1000	300	0.056	DB	6.0	14.5	26.0	22.5	600	F462DB563(1)1K0(2)
1000	300	0.068	DB	6.0	14.5	26.0	22.5	600	F462DB683(1)1K0(2)
VDC	VAC	Cap Value (µF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/µs)	Part Number

(1) J = 5%, K = 10%, other tolerances on request.

(2) Insert lead and packaging code. See Ordering Options Table for available options.

Table 1 – Ratings & Part Number Reference cont'd

VDC	VAC	Cap Value (µF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/µs)	Part Number
				B	H	L			
1000	300	0.082	DI	7.0	16.0	26.0	22.5	600	F462DI823(1)1K0(2)
1000	300	0.1	DI	7.0	16.0	26.0	22.5	600	F462DI104(1)1K0(2)
1000	300	0.12	DH	8.0	16.0	26.0	22.5	600	F462DH124(1)1K0(2)
1000	300	0.15	DM	9.0	18.5	26.0	22.5	600	F462DM154(1)1K0(2)
1000	300	0.18	DO	10.0	18.5	26.0	22.5	600	F462DO184(1)1K0(2)
1000	300	0.22	DO	10.0	18.5	26.0	22.5	600	F462DO224(1)1K0(2)
1000	300	0.27	DU	13.0	22.0	26.0	22.5	600	F462DU274(1)1K0(2)
1000	300	0.33	DU	13.0	22.0	26.0	22.5	600	F462DU334(1)1K0(2)
1000	300	0.39	DY	15.5	24.5	26.0	22.5	600	F462DY394(1)1K0(2)
1000	300	0.47	DY	15.5	24.5	26.0	22.5	600	F462DY474(1)1K0(2)
1000	300	0.56	DY	15.5	24.5	26.0	22.5	600	F462DY564(1)1K0(2)
1000	300	0.15	FB	9.0	17.0	31.5	27.5	200	F462FB154(1)1K0(2)
1000	300	0.18	FB	9.0	17.0	31.5	27.5	200	F462FB184(1)1K0(2)
1000	300	0.22	FB	9.0	17.0	31.5	27.5	200	F462FB224(1)1K0(2)
1000	300	0.27	FC	11.0	20.0	31.5	27.5	200	F462FC274(1)1K0(2)
1000	300	0.33	FC	11.0	20.0	31.5	27.5	200	F462FC334(1)1K0(2)
1000	300	0.39	FI	13.0	25.0	31.5	27.5	200	F462FI394(1)1K0(2)
1000	300	0.47	FI	13.0	25.0	31.5	27.5	200	F462FI474(1)1K0(2)
1000	300	0.56	FN	14.0	28.0	31.5	27.5	200	F462FN564(1)1K0(2)
1000	300	0.68	FN	14.0	28.0	31.5	27.5	200	F462FN684(1)1K0(2)
1000	300	0.82	FR	17.5	28.0	31.5	27.5	200	F462FR824(1)1K0(2)
1000	300	1.0	FY	22.0	37.0	31.5	27.5	200	F462FY105(1)1K0(2)
1000	300	1.2	FY	22.0	37.0	31.5	27.5	200	F462FY125(1)1K0(2)
1000	300	1.5	FY	22.0	37.0	31.5	27.5	200	F462FY155(1)1K0(2)
1000	300	0.33	RB	11.0	22.0	41.0	37.5	150	F462RB334(1)1K0(2)
1000	300	0.39	RB	11.0	22.0	41.0	37.5	150	F462RB394(1)1K0(2)
1000	300	0.47	RB	11.0	22.0	41.0	37.5	150	F462RB474(1)1K0(2)
1000	300	0.56	RB	11.0	22.0	41.0	37.5	150	F462RB564(1)1K0(2)
1000	300	0.68	RF	13.0	24.0	41.0	37.5	150	F462RF684(1)1K0(2)
1000	300	0.82	RH	15.0	26.0	41.0	37.5	150	F462RH824(1)1K0(2)
1000	300	1.0	RC	16.0	28.5	41.0	37.5	150	F462RC105(1)1K0(2)
1000	300	1.2	RD	19.0	32.0	41.0	37.5	150	F462RD125(1)1K0(2)
1000	300	1.5	RD	19.0	32.0	41.0	37.5	150	F462RD155(1)1K0(2)
1000	300	1.8	RP	21.0	38.0	41.0	37.5	150	F462RP185(1)1K0(2)
1000	300	2.2	RP	21.0	38.0	41.0	37.5	150	F462RP225(1)1K0(2)
1000	300	2.7	RO	24.0	44.0	41.0	37.5	150	F462RO275(1)1K0(2)
1000	300	3.3	RU	30.0	45.0	41.0	37.5	150	F462RU335(1)1K0(2)
1000	300	3.9	RU	30.0	45.0	41.0	37.5	150	F462RU395(1)1K0(2)
1250	400	0.0033	AG	4.0	9.0	13.0	10.0	2200	F462AG332(1)1L2(2)
1250	400	0.0047	AG	4.0	9.0	13.0	10.0	2200	F462AG472(1)1L2(2)
1250	400	0.0056	AG	4.0	9.0	13.0	10.0	2200	F462AG562(1)1L2(2)
1250	400	0.0068	AK	5.0	11.0	13.0	10.0	2200	F462AK682(1)1L2(2)
1250	400	0.0082	AK	5.0	11.0	13.0	10.0	2200	F462AK822(1)1L2(2)
1250	400	0.01	AK	5.0	11.0	13.0	10.0	2200	F462AK103(1)1L2(2)
1250	400	0.012	AK	5.0	11.0	13.0	10.0	2200	F462AK123(1)1L2(2)
1250	400	0.015	AP	6.0	12.0	13.0	10.0	2200	F462AP153(1)1L2(2)
1250	400	0.0068	BB	4.0	10.0	18.0	15.0	2000	F462BB682(1)1L2(2)
1250	400	0.0082	BB	4.0	10.0	18.0	15.0	2000	F462BB822(1)1L2(2)
1250	400	0.01	BB	4.0	10.0	18.0	15.0	2000	F462BB103(1)1L2(2)
1250	400	0.012	BC	5.0	11.0	18.0	15.0	2000	F462BC123(1)1L2(2)
1250	400	0.015	BC	5.0	11.0	18.0	15.0	2000	F462BC153(1)1L2(2)
1250	400	0.018	BE	5.5	12.5	18.0	15.0	2000	F462BE183(1)1L2(2)
1250	400	0.022	BE	5.5	12.5	18.0	15.0	2000	F462BE223(1)1L2(2)
1250	400	0.027	BK	7.5	13.5	18.0	15.0	2000	F462BK273(1)1L2(2)
1250	400	0.033	BK	7.5	13.5	18.0	15.0	2000	F462BK333(1)1L2(2)
1250	400	0.039	BK	7.5	13.5	18.0	15.0	2000	F462BK393(1)1L2(2)
1250	400	0.047	BK	7.5	13.5	18.0	15.0	2000	F462BK473(1)1L2(2)
1250	400	0.056	BP	8.5	14.5	18.0	15.0	2000	F462BP563(1)1L2(2)
1250	400	0.068	BS	10.0	16.0	18.0	15.0	2000	F462BS683(1)1L2(2)
1250	400	0.082	BY	11.0	19.0	18.0	15.0	2000	F462BY823(1)1L2(2)
VDC	VAC	Cap Value (µF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/µs)	Part Number

(1) J = 5%, K = 10%, other tolerances on request.

(2) Insert lead and packaging code. See Ordering Options Table for available options.

Table 1 – Ratings & Part Number Reference cont'd

VDC	VAC	Cap Value (µF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/µs)	Part Number
				B	H	L			
1250	400	0.1	BY	11.0	19.0	18.0	15.0	2000	F462BY104(1)1L2(2)
1250	400	0.12	BY	11.0	19.0	18.0	15.0	2000	F462BY124(1)1L2(2)
1250	400	0.033	DB	6.0	14.5	26.0	22.5	800	F462DB333(1)1L2(2)
1250	400	0.039	DB	6.0	14.5	26.0	22.5	800	F462DB393(1)1L2(2)
1250	400	0.047	DB	6.0	14.5	26.0	22.5	800	F462DB473(1)1L2(2)
1250	400	0.056	DB	6.0	14.5	26.0	22.5	800	F462DB563(1)1L2(2)
1250	400	0.068	DI	7.0	16.0	26.0	22.5	800	F462DI683(1)1L2(2)
1250	400	0.082	DI	7.0	16.0	26.0	22.5	800	F462DI823(1)1L2(2)
1250	400	0.1	DJ	8.5	17.0	26.0	22.5	800	F462DJ104(1)1L2(2)
1250	400	0.12	DM	9.0	18.5	26.0	22.5	800	F462DM124(1)1L2(2)
1250	400	0.15	DM	9.0	18.5	26.0	22.5	800	F462DM154(1)1L2(2)
1250	400	0.18	DP	11.0	20.0	26.0	22.5	800	F462DP184(1)1L2(2)
1250	400	0.22	DU	13.0	22.0	26.0	22.5	800	F462DU224(1)1L2(2)
1250	400	0.27	DY	15.5	24.5	26.0	22.5	800	F462DY274(1)1L2(2)
1250	400	0.33	DY	15.5	24.5	26.0	22.5	800	F462DY334(1)1L2(2)
1250	400	0.39	DY	15.5	24.5	26.0	22.5	800	F462DY394(1)1L2(2)
1250	400	0.1	FB	9.0	17.0	31.5	27.5	380	F462FB104(1)1L2(2)
1250	400	0.12	FB	9.0	17.0	31.5	27.5	380	F462FB124(1)1L2(2)
1250	400	0.15	FB	9.0	17.0	31.5	27.5	380	F462FB154(1)1L2(2)
1250	400	0.18	FC	11.0	20.0	31.5	27.5	380	F462FC184(1)1L2(2)
1250	400	0.22	FC	11.0	20.0	31.5	27.5	380	F462FC224(1)1L2(2)
1250	400	0.27	FI	13.0	25.0	31.5	27.5	380	F462FI274(1)1L2(2)
1250	400	0.33	FI	13.0	25.0	31.5	27.5	380	F462FI334(1)1L2(2)
1250	400	0.39	FI	13.0	25.0	31.5	27.5	380	F462FI394(1)1L2(2)
1250	400	0.47	FN	14.0	28.0	31.5	27.5	380	F462FN474(1)1L2(2)
1250	400	0.56	FR	17.5	28.0	31.5	27.5	380	F462FR564(1)1L2(2)
1250	400	0.68	FS	19.0	29.0	31.5	27.5	380	F462FS684(1)1L2(2)
1250	400	0.82	FY	22.0	37.0	31.5	27.5	380	F462FY824(1)1L2(2)
1250	400	1.0	FY	22.0	37.0	31.5	27.5	380	F462FY105(1)1L2(2)
1250	400	1.2	FY	22.0	37.0	31.5	27.5	380	F462FY125(1)1L2(2)
1250	400	0.22	RB	11.0	22.0	41.0	37.5	180	F462RB224(1)1L2(2)
1250	400	0.27	RB	11.0	22.0	41.0	37.5	180	F462RB274(1)1L2(2)
1250	400	0.33	RB	11.0	22.0	41.0	37.5	180	F462RB334(1)1L2(2)
1250	400	0.39	RB	11.0	22.0	41.0	37.5	180	F462RB394(1)1L2(2)
1250	400	0.47	RF	13.0	24.0	41.0	37.5	180	F462RF474(1)1L2(2)
1250	400	0.56	RF	13.0	24.0	41.0	37.5	180	F462RF564(1)1L2(2)
1250	400	0.68	RH	15.0	26.0	41.0	37.5	180	F462RH684(1)1L2(2)
1250	400	0.82	RC	16.0	28.5	41.0	37.5	180	F462RC824(1)1L2(2)
1250	400	1.0	RD	19.0	32.0	41.0	37.5	180	F462RD105(1)1L2(2)
1250	400	1.2	RP	21.0	38.0	41.0	37.5	180	F462RP125(1)1L2(2)
1250	400	1.5	RP	21.0	38.0	41.0	37.5	180	F462RP155(1)1L2(2)
1250	400	1.8	RO	24.0	44.0	41.0	37.5	180	F462RO185(1)1L2(2)
1250	400	2.2	RU	30.0	45.0	41.0	37.5	180	F462RU225(1)1L2(2)
1250	400	2.7	RU	30.0	45.0	41.0	37.5	180	F462RU275(1)1L2(2)
1250	500	0.0047	BB	4.0	10.0	18.0	15.0	3500	F463BB472(1)1L2(2)
1250	500	0.0056	BB	4.0	10.0	18.0	15.0	3500	F463BB562(1)1L2(2)
1250	500	0.0068	BB	4.0	10.0	18.0	15.0	3500	F463BB682(1)1L2(2)
1250	500	0.0082	BC	5.0	11.0	18.0	15.0	3500	F463BC822(1)1L2(2)
1250	500	0.01	BC	5.0	11.0	18.0	15.0	3500	F463BC103(1)1L2(2)
1250	500	0.012	BE	5.5	12.5	18.0	15.0	3500	F463BE123(1)1L2(2)
1250	500	0.015	BG	6.0	12.0	18.0	15.0	3500	F463BG153(1)1L2(2)
1250	500	0.018	BK	7.5	13.5	18.0	15.0	3500	F463BK183(1)1L2(2)
1250	500	0.022	BK	7.5	13.5	18.0	15.0	3500	F463BK223(1)1L2(2)
1250	500	0.027	BK	7.5	13.5	18.0	15.0	3500	F463BK273(1)1L2(2)
1250	500	0.033	BP	8.5	14.5	18.0	15.0	3500	F463BP333(1)1L2(2)
1250	500	0.039	BS	10.0	16.0	18.0	15.0	3500	F463BS393(1)1L2(2)
1250	500	0.047	BS	10.0	16.0	18.0	15.0	3500	F463BS473(1)1L2(2)
1250	500	0.056	BY	11.0	19.0	18.0	15.0	3500	F463BY563(1)1L2(2)
1250	500	0.068	BY	11.0	19.0	18.0	15.0	3500	F463BY683(1)1L2(2)
1250	500	0.022	DB	6.0	14.5	26.0	22.5	2000	F463DB223(1)1L2(2)
VDC	VAC	Cap Value (µF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/µs)	Part Number

(1) J = 5%, K = 10%, other tolerances on request.

(2) Insert lead and packaging code. See Ordering Options Table for available options.

Table 1 – Ratings & Part Number Reference cont'd

VDC	VAC	Cap Value (μF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/μs)	Part Number
				B	H	L			
1250	500	0.027	DB	6.0	14.5	26.0	22.5	2000	F463DB273(1)1L2(2)
1250	500	0.033	DB	6.0	14.5	26.0	22.5	2000	F463DB333(1)1L2(2)
1250	500	0.039	DB	6.0	14.5	26.0	22.5	2000	F463DB393(1)1L2(2)
1250	500	0.047	DI	7.0	16.0	26.0	22.5	2000	F463DI473(1)1L2(2)
1250	500	0.056	DI	7.0	16.0	26.0	22.5	2000	F463DI563(1)1L2(2)
1250	500	0.068	DJ	8.5	17.0	26.0	22.5	2000	F463DJ683(1)1L2(2)
1250	500	0.082	DM	9.0	18.5	26.0	22.5	2000	F463DM823(1)1L2(2)
1250	500	0.1	DO	10.0	18.5	26.0	22.5	2000	F463DO104(1)1L2(2)
1250	500	0.12	DP	11.0	20.0	26.0	22.5	2000	F463DP124(1)1L2(2)
1250	500	0.15	DU	13.0	22.0	26.0	22.5	2000	F463DU154(1)1L2(2)
1250	500	0.18	DU	13.0	22.0	26.0	22.5	2000	F463DU184(1)1L2(2)
1250	500	0.22	DY	15.5	24.5	26.0	22.5	2000	F463DY224(1)1L2(2)
1250	500	0.27	DY	15.5	24.5	26.0	22.5	2000	F463DY274(1)1L2(2)
1250	500	0.068	FB	9.0	17.0	31.5	27.5	800	F463FB683(1)1L2(2)
1250	500	0.082	FB	9.0	17.0	31.5	27.5	800	F463FB823(1)1L2(2)
1250	500	0.1	FB	9.0	17.0	31.5	27.5	800	F463FB104(1)1L2(2)
1250	500	0.12	FB	9.0	17.0	31.5	27.5	800	F463FB124(1)1L2(2)
1250	500	0.15	FC	11.0	20.0	31.5	27.5	800	F463FC154(1)1L2(2)
1250	500	0.18	FC	11.0	20.0	31.5	27.5	800	F463FC184(1)1L2(2)
1250	500	0.22	FI	13.0	25.0	31.5	27.5	800	F463FI224(1)1L2(2)
1250	500	0.27	FI	13.0	25.0	31.5	27.5	800	F463FI274(1)1L2(2)
1250	500	0.33	FN	14.0	28.0	31.5	27.5	800	F463FN334(1)1L2(2)
1250	500	0.39	FR	17.5	28.0	31.5	27.5	800	F463FR394(1)1L2(2)
1250	500	0.47	FR	17.5	28.0	31.5	27.5	800	F463FR474(1)1L2(2)
1250	500	0.56	FY	22.0	37.0	31.5	27.5	800	F463FY564(1)1L2(2)
1250	500	0.68	FY	22.0	37.0	31.5	27.5	800	F463FY684(1)1L2(2)
1250	500	0.82	FY	22.0	37.0	31.5	27.5	800	F463FY824(1)1L2(2)
1250	500	0.22	RB	11.0	22.0	41.0	37.5	400	F463RB224(1)1L2(2)
1250	500	0.27	RB	11.0	22.0	41.0	37.5	400	F463RB274(1)1L2(2)
1250	500	0.33	RB	11.0	22.0	41.0	37.5	400	F463RB334(1)1L2(2)
1250	500	0.39	RF	13.0	24.0	41.0	37.5	400	F463RF394(1)1L2(2)
1250	500	0.47	RH	15.0	26.0	41.0	37.5	400	F463RH474(1)1L2(2)
1250	500	0.56	RC	16.0	28.5	41.0	37.5	400	F463RC564(1)1L2(2)
1250	500	0.68	RC	16.0	28.5	41.0	37.5	400	F463RC684(1)1L2(2)
1250	500	0.82	RD	19.0	32.0	41.0	37.5	400	F463RD824(1)1L2(2)
1250	500	1.0	RP	21.0	38.0	41.0	37.5	400	F463RP105(1)1L2(2)
1250	500	1.2	RP	21.0	38.0	41.0	37.5	400	F463RP125(1)1L2(2)
1250	500	1.5	RO	24.0	44.0	41.0	37.5	400	F463RO155(1)1L2(2)
1250	500	1.8	RU	30.0	45.0	41.0	37.5	400	F463RU185(1)1L2(2)
1250	500	2.2	RU	30.0	45.0	41.0	37.5	400	F463RU225(1)1L2(2)
1600	500	0.001	AG	4.0	9.0	13.0	10.0	6000	F462AG102(1)1K6(2)
1600	500	0.0012	AG	4.0	9.0	13.0	10.0	6000	F462AG122(1)1K6(2)
1600	500	0.0015	AG	4.0	9.0	13.0	10.0	6000	F462AG152(1)1K6(2)
1600	500	0.0018	AG	4.0	9.0	13.0	10.0	6000	F462AG182(1)1K6(2)
1600	500	0.0022	AG	4.0	9.0	13.0	10.0	6000	F462AG222(1)1K6(2)
1600	500	0.0027	AK	5.0	11.0	13.0	10.0	6000	F462AK272(1)1K6(2)
1600	500	0.0033	AK	5.0	11.0	13.0	10.0	6000	F462AK332(1)1K6(2)
1600	500	0.0039	AK	5.0	11.0	13.0	10.0	6000	F462AK392(1)1K6(2)
1600	500	0.0047	AK	5.0	11.0	13.0	10.0	6000	F462AK472(1)1K6(2)
1600	500	0.0056	AP	6.0	12.0	13.0	10.0	6000	F462AP562(1)1K6(2)
1600	500	0.0068	AP	6.0	12.0	13.0	10.0	6000	F462AP682(1)1K6(2)
1600	500	0.0033	BB	4.0	10.0	18.0	15.0	4500	F462BB332(1)1K6(2)
1600	500	0.0039	BB	4.0	10.0	18.0	15.0	4500	F462BB392(1)1K6(2)
1600	500	0.0047	BB	4.0	10.0	18.0	15.0	4500	F462BB472(1)1K6(2)
1600	500	0.0056	BB	4.0	10.0	18.0	15.0	4500	F462BB562(1)1K6(2)
1600	500	0.0068	BC	5.0	11.0	18.0	15.0	4500	F462BC682(1)1K6(2)
1600	500	0.0082	BC	5.0	11.0	18.0	15.0	4500	F462BC822(1)1K6(2)
1600	500	0.01	BE	5.5	12.5	18.0	15.0	4500	F462BE103(1)1K6(2)
1600	500	0.012	BG	6.0	12.0	18.0	15.0	4500	F462BG123(1)1K6(2)
1600	500	0.015	BK	7.5	13.5	18.0	15.0	4500	F462BK153(1)1K6(2)
VDC	VAC	Cap Value (μF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/μs)	Part Number

(1) J = 5%, K = 10%, other tolerances on request.

(2) Insert lead and packaging code. See Ordering Options Table for available options.

Table 1 – Ratings & Part Number Reference cont'd

VDC	VAC	Cap Value (µF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/µs)	Part Number
				B	H	L			
1600	500	0.018	BK	7.5	13.5	18.0	15.0	4500	F462BK183(1)1K6(2)
1600	500	0.022	BK	7.5	13.5	18.0	15.0	4500	F462BK223(1)1K6(2)
1600	500	0.027	BP	8.5	14.5	18.0	15.0	4500	F462BP273(1)1K6(2)
1600	500	0.033	BS	10.0	16.0	18.0	15.0	4500	F462BS333(1)1K6(2)
1600	500	0.039	BY	11.0	19.0	18.0	15.0	4500	F462BY393(1)1K6(2)
1600	500	0.047	BY	11.0	19.0	18.0	15.0	4500	F462BY473(1)1K6(2)
1600	500	0.056	BY	11.0	19.0	18.0	15.0	4500	F462BY563(1)1K6(2)
1600	500	0.015	DB	6.0	14.5	26.0	22.5	1800	F462DB153(1)1K6(2)
1600	500	0.018	DB	6.0	14.5	26.0	22.5	1800	F462DB183(1)1K6(2)
1600	500	0.022	DB	6.0	14.5	26.0	22.5	1800	F462DB223(1)1K6(2)
1600	500	0.027	DB	6.0	14.5	26.0	22.5	1800	F462DB273(1)1K6(2)
1600	500	0.033	DI	7.0	16.0	26.0	22.5	1800	F462DI333(1)1K6(2)
1600	500	0.039	DI	7.0	16.0	26.0	22.5	1800	F462DI393(1)1K6(2)
1600	500	0.047	DH	8.0	16.0	26.0	22.5	1800	F462DH473(1)1K6(2)
1600	500	0.056	DM	9.0	18.5	26.0	22.5	1800	F462DM563(1)1K6(2)
1600	500	0.068	DO	10.0	18.5	26.0	22.5	1800	F462DO683(1)1K6(2)
1600	500	0.082	DP	11.0	20.0	26.0	22.5	1800	F462DP823(1)1K6(2)
1600	500	0.1	DP	11.0	20.0	26.0	22.5	1800	F462DP104(1)1K6(2)
1600	500	0.12	DU	13.0	22.0	26.0	22.5	1800	F462DU124(1)1K6(2)
1600	500	0.15	DY	15.5	24.5	26.0	22.5	1800	F462DY154(1)1K6(2)
1600	500	0.18	DY	15.5	24.5	26.0	22.5	1800	F462DY184(1)1K6(2)
1600	500	0.22	DY	15.5	24.5	26.0	22.5	1800	F462DY224(1)1K6(2)
1600	500	0.047	FB	9.0	17.0	31.5	27.5	500	F462FB473(1)1K6(2)
1600	500	0.056	FB	9.0	17.0	31.5	27.5	500	F462FB563(1)1K6(2)
1600	500	0.068	FB	9.0	17.0	31.5	27.5	500	F462FB683(1)1K6(2)
1600	500	0.082	FB	9.0	17.0	31.5	27.5	500	F462FB823(1)1K6(2)
1600	500	0.1	FC	11.0	20.0	31.5	27.5	500	F462FC104(1)1K6(2)
1600	500	0.12	FC	11.0	20.0	31.5	27.5	500	F462FC124(1)1K6(2)
1600	500	0.15	FI	13.0	25.0	31.5	27.5	500	F462FI154(1)1K6(2)
1600	500	0.18	FI	13.0	25.0	31.5	27.5	500	F462FI184(1)1K6(2)
1600	500	0.22	FN	14.0	28.0	31.5	27.5	500	F462FN224(1)1K6(2)
1600	500	0.27	FR	17.5	28.0	31.5	27.5	500	F462FR274(1)1K6(2)
1600	500	0.33	FR	17.5	28.0	31.5	27.5	500	F462FR334(1)1K6(2)
1600	500	0.39	FS	19.0	29.0	31.5	27.5	500	F462FS394(1)1K6(2)
1600	500	0.47	FY	22.0	37.0	31.5	27.5	500	F462FY474(1)1K6(2)
1600	500	0.56	FY	22.0	37.0	31.5	27.5	500	F462FY564(1)1K6(2)
1600	500	0.68	FY	22.0	37.0	31.5	27.5	500	F462FY684(1)1K6(2)
1600	500	0.15	RB	11.0	22.0	41.0	37.5	300	F462RB154(1)1K6(2)
1600	500	0.18	RB	11.0	22.0	41.0	37.5	300	F462RB184(1)1K6(2)
1600	500	0.22	RB	11.0	22.0	41.0	37.5	300	F462RB224(1)1K6(2)
1600	500	0.27	RF	13.0	24.0	41.0	37.5	300	F462RF274(1)1K6(2)
1600	500	0.33	RH	15.0	26.0	41.0	37.5	300	F462RH334(1)1K6(2)
1600	500	0.39	RC	16.0	28.5	41.0	37.5	300	F462RC394(1)1K6(2)
1600	500	0.47	RC	16.0	28.5	41.0	37.5	300	F462RC474(1)1K6(2)
1600	500	0.56	RD	19.0	32.0	41.0	37.5	300	F462RD564(1)1K6(2)
1600	500	0.68	RP	21.0	38.0	41.0	37.5	300	F462RP684(1)1K6(2)
1600	500	0.82	RP	21.0	38.0	41.0	37.5	300	F462RP824(1)1K6(2)
1600	500	1.0	RO	24.0	44.0	41.0	37.5	300	F462RO105(1)1K6(2)
1600	500	1.2	RO	24.0	44.0	41.0	37.5	300	F462RO125(1)1K6(2)
1600	500	1.5	RU	30.0	45.0	41.0	37.5	300	F462RU155(1)1K6(2)
1600	650	0.0033	BB	4.0	10.0	18.0	15.0	6000	F463BB332(1)1K6(2)
1600	650	0.0039	BB	4.0	10.0	18.0	15.0	6000	F463BB392(1)1K6(2)
1600	650	0.0047	BB	4.0	10.0	18.0	15.0	6000	F463BB472(1)1K6(2)
1600	650	0.0056	BC	5.0	11.0	18.0	15.0	6000	F463BC562(1)1K6(2)
1600	650	0.0068	BC	5.0	11.0	18.0	15.0	6000	F463BC682(1)1K6(2)
1600	650	0.0082	BE	5.5	12.5	18.0	15.0	6000	F463BE822(1)1K6(2)
1600	650	0.01	BG	6.0	12.0	18.0	15.0	6000	F463BG103(1)1K6(2)
1600	650	0.012	BK	7.5	13.5	18.0	15.0	6000	F463BK123(1)1K6(2)
1600	650	0.015	BK	7.5	13.5	18.0	15.0	6000	F463BK153(1)1K6(2)
1600	650	0.018	BP	8.5	14.5	18.0	15.0	6000	F463BP183(1)1K6(2)
VDC	VAC	Cap Value (µF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/µs)	Part Number

(1) J = 5%, K = 10%, other tolerances on request.

(2) Insert lead and packaging code. See Ordering Options Table for available options.

Table 1 – Ratings & Part Number Reference cont'd

VDC	VAC	Cap Value (μF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/μs)	Part Number
				B	H	L			
1600	650	0.022	BP	8.5	14.5	18.0	15.0	6000	F463BP223(1)1K6(2)
1600	650	0.027	BS	10.0	16.0	18.0	15.0	6000	F463BS273(1)1K6(2)
1600	650	0.033	BY	11.0	19.0	18.0	15.0	6000	F463BY333(1)1K6(2)
1600	650	0.039	BY	11.0	19.0	18.0	15.0	6000	F463BY393(1)1K6(2)
1600	650	0.047	BY	11.0	19.0	18.0	15.0	6000	F463BY473(1)1K6(2)
1600	650	0.015	DB	6.0	14.5	26.0	22.5	3000	F463DB153(1)1K6(2)
1600	650	0.018	DB	6.0	14.5	26.0	22.5	3000	F463DB183(1)1K6(2)
1600	650	0.022	DB	6.0	14.5	26.0	22.5	3000	F463DB223(1)1K6(2)
1600	650	0.027	DB	6.0	14.5	26.0	22.5	3000	F463DB273(1)1K6(2)
1600	650	0.033	DI	7.0	16.0	26.0	22.5	3000	F463DI333(1)1K6(2)
1600	650	0.039	DI	7.0	16.0	26.0	22.5	3000	F463DI393(1)1K6(2)
1600	650	0.047	DJ	8.5	17.0	26.0	22.5	3000	F463DJ473(1)1K6(2)
1600	650	0.056	DM	9.0	18.5	26.0	22.5	3000	F463DM563(1)1K6(2)
1600	650	0.068	DO	10.0	18.5	26.0	22.5	3000	F463DO683(1)1K6(2)
1600	650	0.082	DP	11.0	20.0	26.0	22.5	3000	F463DP823(1)1K6(2)
1600	650	0.1	DU	13.0	22.0	26.0	22.5	3000	F463DU104(1)1K6(2)
1600	650	0.12	DU	13.0	22.0	26.0	22.5	3000	F463DU124(1)1K6(2)
1600	650	0.15	DY	15.5	24.5	26.0	22.5	3000	F463DY154(1)1K6(2)
1600	650	0.18	DY	15.5	24.5	26.0	22.5	3000	F463DY184(1)1K6(2)
1600	650	0.047	FB	9.0	17.0	31.5	27.5	1500	F463FB473(1)1K6(2)
1600	650	0.056	FB	9.0	17.0	31.5	27.5	1500	F463FB563(1)1K6(2)
1600	650	0.068	FB	9.0	17.0	31.5	27.5	1500	F463FB683(1)1K6(2)
1600	650	0.082	FB	9.0	17.0	31.5	27.5	1500	F463FB823(1)1K6(2)
1600	650	0.1	FC	11.0	20.0	31.5	27.5	1500	F463FC104(1)1K6(2)
1600	650	0.12	FC	11.0	20.0	31.5	27.5	1500	F463FC124(1)1K6(2)
1600	650	0.15	FI	13.0	25.0	31.5	27.5	1500	F463FI154(1)1K6(2)
1600	650	0.18	FI	13.0	25.0	31.5	27.5	1500	F463FI184(1)1K6(2)
1600	650	0.22	FN	14.0	28.0	31.5	27.5	1500	F463FN224(1)1K6(2)
1600	650	0.27	FR	17.5	28.0	31.5	27.5	1500	F463FR274(1)1K6(2)
1600	650	0.33	FS	19.0	29.0	31.5	27.5	1500	F463FS334(1)1K6(2)
1600	650	0.39	FY	22.0	37.0	31.5	27.5	1500	F463FY394(1)1K6(2)
1600	650	0.47	FY	22.0	37.0	31.5	27.5	1500	F463FY474(1)1K6(2)
1600	650	0.56	FY	22.0	37.0	31.5	27.5	1500	F463FY564(1)1K6(2)
1600	650	0.15	RB	11.0	22.0	41.0	37.5	750	F463RB154(1)1K6(2)
1600	650	0.18	RB	11.0	22.0	41.0	37.5	750	F463RB184(1)1K6(2)
1600	650	0.22	RB	11.0	22.0	41.0	37.5	750	F463RB224(1)1K6(2)
1600	650	0.27	RF	13.0	24.0	41.0	37.5	750	F463RF274(1)1K6(2)
1600	650	0.33	RH	15.0	26.0	41.0	37.5	750	F463RH334(1)1K6(2)
1600	650	0.39	RC	16.0	28.5	41.0	37.5	750	F463RC394(1)1K6(2)
1600	650	0.47	RD	19.0	32.0	41.0	37.5	750	F463RD474(1)1K6(2)
1600	650	0.56	RD	19.0	32.0	41.0	37.5	750	F463RD564(1)1K6(2)
1600	650	0.68	RP	21.0	38.0	41.0	37.5	750	F463RP684(1)1K6(2)
1600	650	0.82	RP	21.0	38.0	41.0	37.5	750	F463RP824(1)1K6(2)
1600	650	1.0	RO	24.0	44.0	41.0	37.5	750	F463RO105(1)1K6(2)
1600	650	1.2	RO	24.0	44.0	41.0	37.5	750	F463RO125(1)1K6(2)
1600	650	1.5	RU	30.0	45.0	41.0	37.5	750	F463RU155(1)1K6(2)
2000	700	0.001	AG	4.0	9.0	13.0	10.0	10000	F463AG102(1)2K0(2)
2000	700	0.0012	AG	4.0	9.0	13.0	10.0	10000	F463AG122(1)2K0(2)
2000	700	0.0015	AG	4.0	9.0	13.0	10.0	10000	F463AG152(1)2K0(2)
2000	700	0.0018	AG	4.0	9.0	13.0	10.0	10000	F463AG182(1)2K0(2)
2000	700	0.0022	AK	4.0	9.0	13.0	10.0	10000	F463AG222(1)2K0(2)
2000	700	0.0027	AK	5.0	11.0	13.0	10.0	10000	F463AK272(1)2K0(2)
2000	700	0.0033	AK	5.0	11.0	13.0	10.0	10000	F463AK332(1)2K0(2)
2000	700	0.0039	AK	5.0	11.0	13.0	10.0	10000	F463AK392(1)2K0(2)
2000	700	0.0047	AP	5.0	11.0	13.0	10.0	10000	F463AK472(1)2K0(2)
2000	700	0.0056	AP	6.0	12.0	13.0	10.0	10000	F463AP562(1)2K0(2)
2000	700	0.001	BB	4.0	10.0	18.0	15.0	9500	F463BB102(1)2K0(2)
2000	700	0.0012	BB	4.0	10.0	18.0	15.0	9500	F463BB122(1)2K0(2)
2000	700	0.0015	BB	4.0	10.0	18.0	15.0	9500	F463BB152(1)2K0(2)
2000	700	0.0018	BB	4.0	10.0	18.0	15.0	9500	F463BB182(1)2K0(2)
VDC	VAC	Cap Value (μF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/μs)	Part Number

(1) J = 5%, K = 10%, other tolerances on request.

(2) Insert lead and packaging code. See Ordering Options Table for available options.

Table 1 – Ratings & Part Number Reference cont'd

VDC	VAC	Cap Value (µF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/µs)	Part Number
				B	H	L			
2000	700	0.0022	BB	4.0	10.0	18.0	15.0	9500	F463BB222(1)2K0(2)
2000	700	0.0027	BC	5.0	11.0	18.0	15.0	9500	F463BC272(1)2K0(2)
2000	700	0.0033	BC	5.0	11.0	18.0	15.0	9500	F463BC332(1)2K0(2)
2000	700	0.0039	BC	5.0	11.0	18.0	15.0	9500	F463BC392(1)2K0(2)
2000	700	0.0047	BE	5.5	12.5	18.0	15.0	9500	F463BE472(1)2K0(2)
2000	700	0.0056	BE	5.5	12.5	18.0	15.0	9500	F463BE562(1)2K0(2)
2000	700	0.0068	BK	7.5	13.5	18.0	15.0	9500	F463BK682(1)2K0(2)
2000	700	0.0082	BK	7.5	13.5	18.0	15.0	9500	F463BK822(1)2K0(2)
2000	700	0.01	BK	7.5	13.5	18.0	15.0	9500	F463BK103(1)2K0(2)
2000	700	0.012	BP	8.5	14.5	18.0	15.0	9500	F463BP123(1)2K0(2)
2000	700	0.015	BS	10.0	16.0	18.0	15.0	9500	F463BS153(1)2K0(2)
2000	700	0.018	BY	11.0	19.0	18.0	15.0	9500	F463BY183(1)2K0(2)
2000	700	0.022	BY	11.0	19.0	18.0	15.0	9500	F463BY223(1)2K0(2)
2000	700	0.027	BY	11.0	19.0	18.0	15.0	9500	F463BY273(1)2K0(2)
2000	700	0.01	DB	6.0	14.5	26.0	22.5	4500	F463DB103(1)2K0(2)
2000	700	0.012	DB	6.0	14.5	26.0	22.5	4500	F463DB123(1)2K0(2)
2000	700	0.015	DI	7.0	16.0	26.0	22.5	4500	F463DI153(1)2K0(2)
2000	700	0.018	DI	7.0	16.0	26.0	22.5	4500	F463DI183(1)2K0(2)
2000	700	0.022	DH	8.0	16.0	26.0	22.5	4500	F463DH223(1)2K0(2)
2000	700	0.027	DJ	8.5	17.0	26.0	22.5	4500	F463DJ273(1)2K0(2)
2000	700	0.033	DO	10.0	18.5	26.0	22.5	4500	F463DO333(1)2K0(2)
2000	700	0.039	DO	10.0	18.5	26.0	22.5	4500	F463DO393(1)2K0(2)
2000	700	0.047	DP	11.0	20.0	26.0	22.5	4500	F463DP473(1)2K0(2)
2000	700	0.056	DU	13.0	22.0	26.0	22.5	4500	F463DU563(1)2K0(2)
2000	700	0.068	DU	13.0	22.0	26.0	22.5	4500	F463DU683(1)2K0(2)
2000	700	0.082	DY	15.5	24.5	26.0	22.5	4500	F463DY823(1)2K0(2)
2000	700	0.1	DY	15.5	24.5	26.0	22.5	4500	F463DY104(1)2K0(2)
2000	700	0.022	FB	9.0	17.0	31.5	27.5	1000	F463FB223(1)2K0(2)
2000	700	0.027	FB	9.0	17.0	31.5	27.5	1000	F463FB273(1)2K0(2)
2000	700	0.033	FB	9.0	17.0	31.5	27.5	1000	F463FB333(1)2K0(2)
2000	700	0.039	FB	9.0	17.0	31.5	27.5	1000	F463FB393(1)2K0(2)
2000	700	0.047	FC	11.0	20.0	31.5	27.5	1000	F463FC473(1)2K0(2)
2000	700	0.056	FC	11.0	20.0	31.5	27.5	1000	F463FC563(1)2K0(2)
2000	700	0.068	FC	11.0	20.0	31.5	27.5	1000	F463FC683(1)2K0(2)
2000	700	0.082	FI	13.0	25.0	31.5	27.5	1000	F463FI823(1)2K0(2)
2000	700	0.1	FI	13.0	25.0	31.5	27.5	1000	F463FI104(1)2K0(2)
2000	700	0.12	FN	14.0	28.0	31.5	27.5	1000	F463FN124(1)2K0(2)
2000	700	0.15	FR	17.5	28.0	31.5	27.5	1000	F463FR154(1)2K0(2)
2000	700	0.18	FS	19.0	29.0	31.5	27.5	1000	F463FS184(1)2K0(2)
2000	700	0.22	FY	22.0	37.0	31.5	27.5	1000	F463FY224(1)2K0(2)
2000	700	0.27	FY	22.0	37.0	31.5	27.5	1000	F463FY274(1)2K0(2)
2000	700	0.33	FY	22.0	37.0	31.5	27.5	1000	F463FY334(1)2K0(2)
2000	700	0.068	RB	11.0	22.0	41.0	37.5	500	F463RB683(1)2K0(2)
2000	700	0.082	RB	11.0	22.0	41.0	37.5	500	F463RB823(1)2K0(2)
2000	700	0.1	RB	11.0	22.0	41.0	37.5	500	F463RB104(1)2K0(2)
2000	700	0.12	RB	11.0	22.0	41.0	37.5	500	F463RB124(1)2K0(2)
2000	700	0.15	RF	13.0	24.0	41.0	37.5	500	F463RF154(1)2K0(2)
2000	700	0.18	RH	15.0	26.0	41.0	37.5	500	F463RH184(1)2K0(2)
2000	700	0.22	RC	16.0	28.5	41.0	37.5	500	F463RC224(1)2K0(2)
2000	700	0.27	RD	19.0	32.0	41.0	37.5	500	F463RD274(1)2K0(2)
2000	700	0.33	RD	19.0	32.0	41.0	37.5	500	F463RD334(1)2K0(2)
2000	700	0.39	RP	21.0	38.0	41.0	37.5	500	F463RP394(1)2K0(2)
2000	700	0.47	RP	21.0	38.0	41.0	37.5	500	F463RP474(1)2K0(2)
2000	700	0.56	RO	24.0	44.0	41.0	37.5	500	F463RO564(1)2K0(2)
2000	700	0.68	RU	30.0	45.0	41.0	37.5	500	F463RU684(1)2K0(2)
2000	700	0.82	RU	30.0	45.0	41.0	37.5	500	F463RU824(1)2K0(2)
2500	900	0.001	BB	4.0	10.0	18.0	15.0	4500	F464BB102(1)2K5(2)
2500	900	0.0012	BB	4.0	10.0	18.0	15.0	4500	F464BB122(1)2K5(2)
2500	900	0.0015	BB	4.0	10.0	18.0	15.0	4500	F464BB152(1)2K5(2)
2500	900	0.0018	BB	4.0	10.0	18.0	15.0	4500	F464BB182(1)2K5(2)
VDC	VAC	Cap Value (µF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/µs)	Part Number

(1) J = 5%, K = 10%, other tolerances on request.

(2) Insert lead and packaging code. See Ordering Options Table for available options.

Table 1 – Ratings & Part Number Reference cont'd

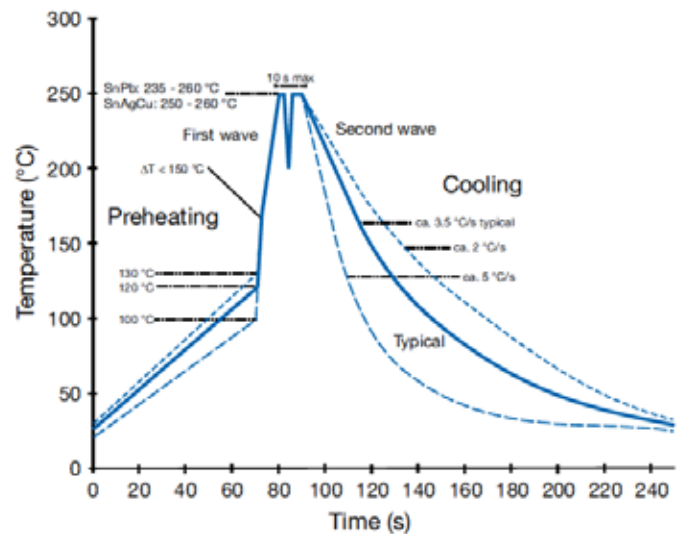
VDC	VAC	Cap Value (μF)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/μs)	Part Number
				B	H	L			
2500	900	0.0022	BB	4.0	10.0	18.0	15.0	4500	F464BB222(1)2K5(2)
2500	900	0.0027	BC	5.0	11.0	18.0	15.0	4500	F464BC272(1)2K5(2)
2500	900	0.0033	BC	5.0	11.0	18.0	15.0	4500	F464BC332(1)2K5(2)
2500	900	0.0039	BE	5.5	12.5	18.0	15.0	4500	F464BE392(1)2K5(2)
2500	900	0.0047	BE	5.5	12.5	18.0	15.0	4500	F464BE472(1)2K5(2)
2500	900	0.0056	BK	7.5	13.5	18.0	15.0	4500	F464BK562(1)2K5(2)
2500	900	0.0068	BK	7.5	13.5	18.0	15.0	4500	F464BK682(1)2K5(2)
2500	900	0.0082	BK	7.5	13.5	18.0	15.0	4500	F464BK822(1)2K5(2)
2500	900	0.01	BP	8.5	14.5	18.0	15.0	4500	F464BP103(1)2K5(2)
2500	900	0.012	BS	10.0	16.0	18.0	15.0	4500	F464BS123(1)2K5(2)
2500	900	0.015	BS	10.0	16.0	18.0	15.0	4500	F464BS153(1)2K5(2)
2500	900	0.018	BY	11.0	19.0	18.0	15.0	4500	F464BY183(1)2K5(2)
2500	900	0.022	BY	11.0	19.0	18.0	15.0	4500	F464BY223(1)2K5(2)
2500	900	0.0047	DB	6.0	14.5	26.0	22.5	2500	F464DB472(1)2K5(2)
2500	900	0.0056	DB	6.0	14.5	26.0	22.5	2500	F464DB562(1)2K5(2)
2500	900	0.0068	DB	6.0	14.5	26.0	22.5	2500	F464DB682(1)2K5(2)
2500	900	0.0082	DB	6.0	14.5	26.0	22.5	2500	F464DB822(1)2K5(2)
2500	900	0.01	DI	7.0	16.0	26.0	22.5	2500	F464DI103(1)2K5(2)
2500	900	0.012	DI	7.0	16.0	26.0	22.5	2500	F464DI123(1)2K5(2)
2500	900	0.015	DJ	8.5	17.0	26.0	22.5	2500	F464DJ153(1)2K5(2)
2500	900	0.018	DM	9.0	18.5	26.0	22.5	2500	F464DM183(1)2K5(2)
2500	900	0.022	DM	9.0	18.5	26.0	22.5	2500	F464DM223(1)2K5(2)
2500	900	0.027	DP	11.0	20.0	26.0	22.5	2500	F464DP273(1)2K5(2)
2500	900	0.033	DU	13.0	22.0	26.0	22.5	2500	F464DU333(1)2K5(2)
2500	900	0.039	DY	15.5	24.5	26.0	22.5	2500	F464DY393(1)2K5(2)
2500	900	0.047	DY	15.5	24.5	26.0	22.5	2500	F464DY473(1)2K5(2)
2500	900	0.056	DY	15.5	24.5	26.0	22.5	2500	F464DY563(1)2K5(2)
2500	900	0.015	FB	9.0	17.0	31.5	27.5	1500	F464FB153(1)2K5(2)
2500	900	0.018	FB	9.0	17.0	31.5	27.5	1500	F464FB183(1)2K5(2)
2500	900	0.022	FB	9.0	17.0	31.5	27.5	1500	F464FB223(1)2K5(2)
2500	900	0.027	FB	9.0	17.0	31.5	27.5	1500	F464FB273(1)2K5(2)
2500	900	0.033	FC	11.0	20.0	31.5	27.5	1500	F464FC333(1)2K5(2)
2500	900	0.039	FC	11.0	20.0	31.5	27.5	1500	F464FC393(1)2K5(2)
2500	900	0.047	FI	13.0	25.0	31.5	27.5	1500	F464FI473(1)2K5(2)
2500	900	0.056	FI	13.0	25.0	31.5	27.5	1500	F464FI563(1)2K5(2)
2500	900	0.068	FI	13.0	25.0	31.5	27.5	1500	F464FI683(1)2K5(2)
2500	900	0.082	FN	14.0	28.0	31.5	27.5	1500	F464FN823(1)2K5(2)
2500	900	0.1	FR	17.5	28.0	31.5	27.5	1500	F464FR104(1)2K5(2)
2500	900	0.12	FS	19.0	29.0	31.5	27.5	1500	F464FS124(1)2K5(2)
2500	900	0.15	FY	22.0	37.0	31.5	27.5	1500	F464FY154(1)2K5(2)
2500	900	0.18	FY	22.0	37.0	31.5	27.5	1500	F464FY184(1)2K5(2)
VDC	VAC	Cap Value (μF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/μs)	Part Number

(1) J = 5%, K = 10%, other tolerances on request.

(2) Insert lead and packaging code. See Ordering Options Table for available options.

Soldering Process

The implementation of the RoHS Directive has required the selection SnAuCu (SAC) alloys or SnCu alloys as primary solder. This has increased the liquidus temperature from that of 183°C for SnPb eutectic alloy to 217°C – 221°C for the new alloys. As a result, the heat stress to components, even in wave soldering, has increased considerably due to higher pre-heat and wave temperatures. Polypropylene capacitors are especially sensitive to heat (melting point of polypropylene is 160°C – 170°C). Wave soldering can be destructive especially for mechanically small polypropylene capacitors and great care must be taken during soldering. The solder profiles from KEMET are highly recommended. You may also refer to the wave soldering curve from IEC Publication 61760–1 Edition 2. Please consult KEMET with any questions.



Marking

- Capacitance
- Tolerance code
- Rated DC voltage
- Series
- Manufacturing date code

Packaging Quantities

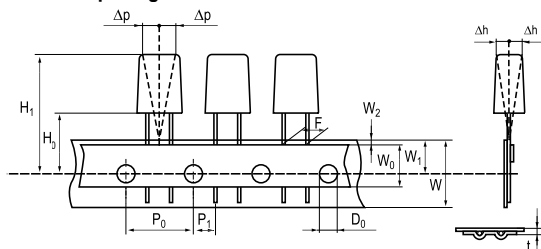
Size Code	Lead Spacing	Thickness (mm)	Height (mm)	Length (mm)	Bulk Short Leads	Bulk Long Leads	Standard Reel ø 355 mm	Large Reel ø 500 mm	Ammo	Pizza
KE	7.5	2.5	6	10	2000	3000	2500		3500	
KF		3	8	10	1500	1750	2100		2800	
KG		4	8	10	2000	1500	1500		2100	
KJ		5	10.5	10	1500	1000	1200		1600	
KM		6	12	10.5	1000	800	1000		1350	
KH		4	9	10	2000	1500	1500		2100	
AN	10	3.5	9	13	2200	3200	850	1700	1150	
AG		4	9	13	2000	2200	750	1500	1000	
AK		5	11	13	1300	2000	600	1250	800	
AP		6	12	13	1000	1800	500	1000	680	
AO		7	17	13	600	900	450	900	580	
AL		9.5	7.5	13	1100	2000	300	600	430	
AE		4	8	13	2000	2200	750	1500	1000	
BB	15	4	10	18	1300	1500	750	1500	1000	1411
BC		5	11	18	1000	1250	600	1250	800	1139
BE		5.5	12.5	18	800	1100	550	1100	750	1020
BG		6	12	18	1750	1000	500	1000	680	935
BK		7.5	13.5	18	1000	800	350	800	500	748
BI		6	17.5	18	1000	800	500	1000	680	935
BP		8.5	14.5	18	1000	650	300	700	440	663
BT		9	12.5	18	1000	700	270	650	410	629
BO		7.5	18.5	18	900	600	350	800	500	748
BS		10	16	18	750	550	300	600	380	561
BR		13	12	18	750	520	200	480	280	425
BY		11	19	18	450	400	250	500	340	510
BA		8.5	12.5	18	1000	650	300	700	440	663
BZ		12	20	18	350	300	220	450	330	459
DB	22.5	6	14.5	26	1638	702	300	700	464	660
DI		7	16	26	1188	594	250	550	380	564
DH		8.0	16.0	26	1026	513	240	500	330	492
DJ		8.5	17	26	972	486	250	450	280	468
DM		9	18.5	26	918	459	200	400	300	444
DO		10	18.5	26	810	405	160	350	235	396
DP		11	20	26	756	378	190	350	217	360
DU		13	22	26	540	324	150	300	200	300
DY		15.5	24.5	26	450	270	120	250	170	252

Packaging Quantities cont'd

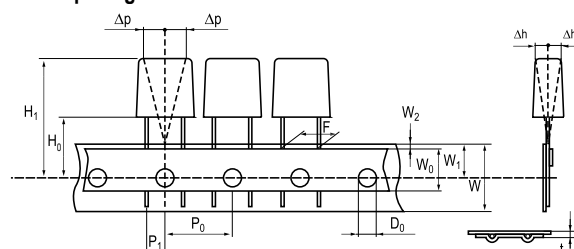
Size Code	Lead Spacing	Thickness (mm)	Height (mm)	Length (mm)	Bulk Short Leads	Bulk Long Leads	Standard Reel ø 355 mm	Large Reel ø 500 mm	Ammo	Pizza
FB	27.5	9.0	17.0	31.5	816	408				370
FC		11.0	20.0	31.5	672	336				300
FI		13.0	25.0	31.5	480	288				250
FN		14.0	28.0	31.5	352	176				230
FO		17.0	40.0	31.5	216	144				190
FR		17.5	28.0	31.5	256	128				190
FS		19.0	29.0	31.5	256	128				170
FY		22.0	37.0	31.5	168	112				150
FH		21.0	12.5	31.5	392	168				150
FQ		27.5	16.0	31.5	280	120				120
FT		31.0	19.0	31.5	240	120				100
RB	37.5	11.0	22.0	41.0	420	252				210
RF		13.0	24.0	41.0	360	216				175
RH		15.0	26.0	41.0	300	180				154
RC		16.0	28.5	41.0	216	108				140
RD		19.0	32.0	41.0	192	96				119
RP		21.0	38.0	41.0	126	84				105
RO		24.0	44.0	41.0	108	72				91
RU		30.0	45.0	41.0	90	60				77
RV		24.0	15.0	41.0	252	108				91
RW		24.0	19.0	41.0	216	108				91

Lead Taping & Packaging (IEC 60286-2)

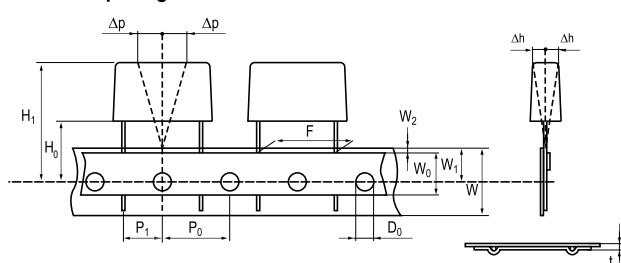
Lead Spacing 5 mm



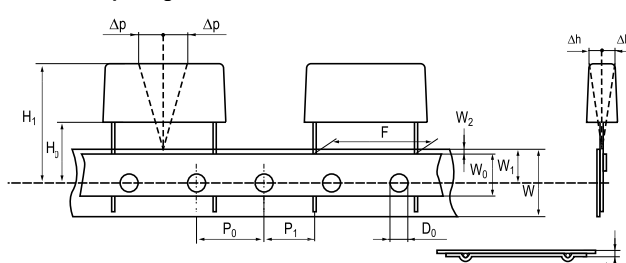
Lead Spacing 7.5 mm



Lead Spacing 10 – 15 mm



Lead Spacing 22.5 – 27.5 mm



Taping Specification

Dimensions in mm									Standard IEC 60286-2
Lead spacing	+6/-0.1	F	5	7.5	10	15	22.5	27.5	F
Carrier tape width	+1/-0.5	W	18	18	18	18	18	18	18 ^{+1/-0.5}
Hold-down tape width	MIN	W ₀	6	6	9	10	10	10	
Position of sprocket hole	+/-0.5	W ₁	9	9	9	9	9	9	9 ^{+0.75/-0.5}
Distance between tapes	MAX	W ₂	3	3	3	3	3	3	3
Sprocket hole diameter	+/-0.2	D ₀	4	4	4	4	4	4	4
Feed hole lead spacing	+/-0.2 ⁽¹⁾	P ₀ ⁽³⁾	12.7	12.7	12.7	12.7	12.7	12.7	12.7
Distance lead - feed hole	+/-0.7	P ₁	3.85	3.75	7.7	5.2	7.8	5.3	P ¹
Deviation tape - plane	MAX	Δp	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Lateral deviation	+/-2	Δh	2	2	2	2	2	2	2
Total thickness	+/-0.2	t	0.7	0.7	0.7	0.7	0.9 ^{MAX}	0.9 ^{MAX}	0.9 ^{MAX}
Sprocket hole/cap body	+/-0.5	H ₀ ⁽²⁾	18.5 ^{+/-0.5}	18.5 ^{+/-0.5}	18.5 ^{+/-0.5}	18.5 ^{+/-0.5}	18.5 ^{+/-0.5}	18.5 ^{+/-0.5}	18 ^{+2/-0}

(1) Maximum cumulative feed hole error, 1 mm per 20 parts.

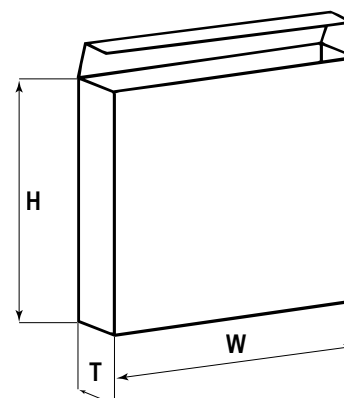
(2) 16.5 mm available on request.

(3) 15 mm available on request (F ≥ 10 mm).

Lead Taping & Packaging (IEC 60286–2) cont'd

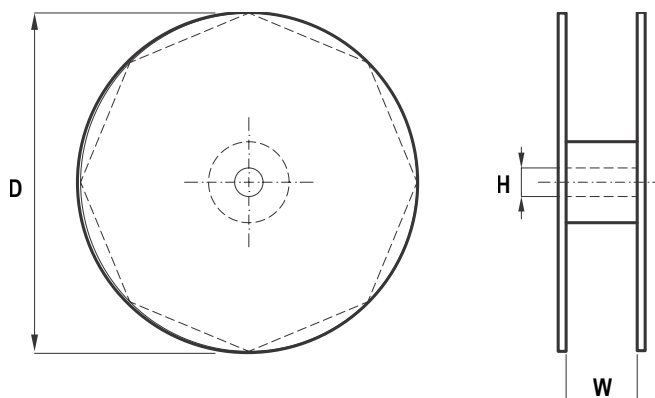
Ammo Specifications

Series	Dimensions (mm)		
	H	W	T
R4x, R4x+R, R7x, RSB	360	340	59
F5A, F5B, F5D			
F6xx, F8xx			
PHExxx, PMExxx, PMRxxx	330	330	50



Reel Specifications

Series	Dimensions (mm)		
	D	H	W
R4x, R4x+R, R7x, RSB	355 500	30	55 (Max)
F5A, F5B, F5D		25	
F6xx, F8xx			
PHExxx, PMExxx, PMRxxx	360 500	30	46 (Max)



Manufacturing Date Code (IEC–60062)

Y = Year, Z = Month			
Year	Code	Month	Code
2000	M	January	1
2001	N	February	2
2002	P	March	3
2003	R	April	4
2004	S	May	5
2005	T	June	6
2006	U	July	7
2007	V	August	8
2008	W	September	9
2009	X	October	O
2010	A	November	N
2011	B	December	D
2012	C		
2013	D		
2014	E		
2015	F		
2016	H		
2017	J		
2018	K		
2019	L		
2020	M		

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Weymouth, United Kingdom
Tel: 44-1305-830747

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Färjestaden, Sweden
Tel: 46-485-563934

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Asia

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Shenzhen, China
Tel: 86-755-2518-1306

Beijing, China
Tel: 86-10-5829-1711

Shanghai, China
Tel: 86-21-6447-0707

Taipei, Taiwan
Tel: 886-2-27528585

Southeast Asia

Singapore
Tel: 65-6586-1900

Penang, Malaysia
Tel: 60-4-6430200

Bangalore, India
Tel: 91-806-53-76817

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Other KEMET Resources

Tools	
Resource	Location
Configure A Part: CapEdge	http://capacitoredge.kemet.com
SPICE & FIT Software	http://www.kemet.com/spice
Search Our FAQs: KnowledgeEdge	http://www.kemet.com/keask

Product Information	
Resource	Location
Products	http://www.kemet.com/products
Technical Resources (Including Soldering Techniques)	http://www.kemet.com/technicalpapers
RoHS Statement	http://www.kemet.com/rohs
Quality Documents	http://www.kemet.com/qualitydocuments

Product Request	
Resource	Location
Sample Request	http://www.kemet.com/sample
Engineering Kit Request	http://www.kemet.com/kits

Contact	
Resource	Location
Website	www.kemet.com
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Call Us	1-877-MyKEMET
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Although we design and manufacture our products to the most stringent quality and safety standards, given the current state of the art, isolated component failures may still occur. Accordingly, customer applications which require a high degree of reliability or safety should employ suitable designs or other safeguards (such as installation of protective circuitry or redundancies) in order to ensure that the failure of an electrical component does not result in a risk of personal injury or property damage.

Although all product-related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicated or that other measures may not be required.

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