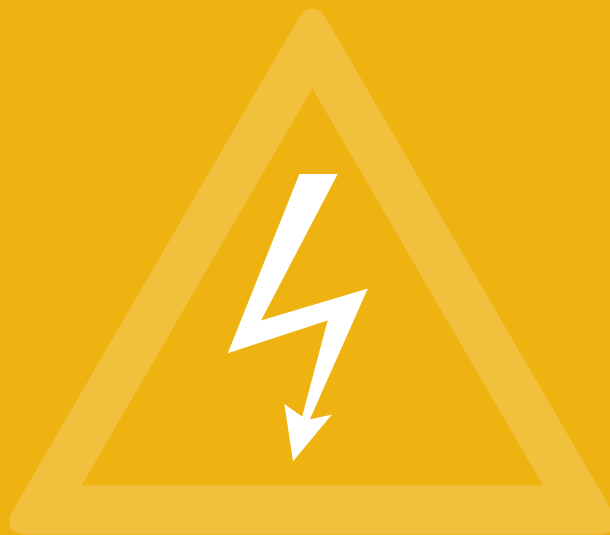

Capacitor Selection Guide

High Voltage



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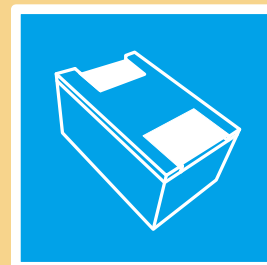
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Why Choose KEMET

KEMET Electronics Corporation is a leading global supplier of electronic components. We offer our customers the broadest selection of capacitor technologies in the industry, along with an expanding range of electromagnetic compatibility solutions and supercapacitors. Our vision is to be the preferred supplier of electronic component solutions for customers demanding the highest standards of quality, delivery and service.

TABLE OF CONTENTS

Aluminum Electrolytic Capacitors

Screw Terminal.....	9
Snap-In	13
Press-Fit	21
Surface Mount	23
Radial/Single-Ended	24

Ceramic Capacitors

Surface Mount	31
Commercial Grade	31
Automotive Grade	37
Industrial & Military Grade	42
Leaded	48
Commercial Grade	48
Industrial & Military Grade	50

Film Capacitors

DC Film	59
Pulse & High Frequency	59
Single Metallized Polypropylene.....	59
Double Metallized Polyester	70
Film/Foil Polypropylene.....	77
General Purpose	79
Through-Hole.....	79
Metallized Polyester (PET).....	79
Metallized Paper	88
Surface Mount	89
Polyester (PET)	89
Polyethylene Naphthalate (PEN).....	89
Metallized Polyphenylene Sulfide (PPS).....	92
Specialty Components	93
RC Network – Metallized Polypropylene	93
Dual In-Line Polyester	94
Through-Hole	94
Surface Mount.....	95
Power AC Film.....	97
Polypropylene – Through-Hole	97
Axial.....	97
Radial Box	99
Plastic Canister	103
Aluminum Canister	105

Aluminum Electrolytic Capacitors

Aluminum Electrolytic Capacitors

Screw Terminal

ALS70/71 High CV Value & Long Life 85°C, 25 – 550 VDC

Capacitance Range: 300 to 1,300,000 µF • **Temperature Range:** -40°C to +85°C

Lifetime: 20,000 Hours

www.kemet.com/ALS70-71



ALS7	0	A	303	DA	025	
Series	Stud Option	Termination	Capacitance Code (µF)	Size Code	Rated Voltage (VDC)	
Screw Terminal Aluminum Electrolytic	0 = Plain can 1 = Threaded mounting stud	See Termination Table	First two digits represent significant figures. Third digit specifies number of zeros.	See Dimension Table	025 = 25 040 = 40 063 = 63 100 = 100 200 = 200 250 = 250	350 = 350 400 = 400 450 = 450 500 = 500 550 = 550

Case Size	Voltage					
	25	40	63	100	200	250
36 x 52	30 mF	18 mF	8.2 mF	3.3 mF	1.2 mF	910 µF
36 x 62	39 mF	24 mF	11 mF	4.3 mF	1.5 mF	1.2 mF
36 x 82	62 mF	36 mF	16 mF	6.8 mF	2.4 mF	1.8 mF
36 x 105	82 mF	51 mF	24 mF	9.1 mF	3.3 mF	2.4 mF
51 x 82	130 mF	75 mF	33 mF	13 mF	4.7 mF	3.6 mF
51 x 105	180 mF	110 mF	51 mF	20 mF	6.8 mF	5.1 mF
63.5 x 131	300 mF	180 mF	91 mF	3.6 mF	12 mF	9.1 mF
66 x 105	330 mF	180 mF	91 mF	36 mF	12 mF	9.1 mF
77 x 105	470 mF	270 mF	130 mF	51 mF	18 mF	13 mF
77 x 115	470 mF	270 mF	130 mF	51 mF	18 mF	13 mF
77 x 146	560 mF	330 mF	160 mF	62 mF	22 mF	16 mF
77 x 169	680 mF	430 mF	200 mF	75 mF	27 mF	20 mF
77 x 194	910 mF	510 mF	240 mF	100 mF	33 mF	24 mF
77 x 220	910 mF	560 mF	270 mF	100 mF	36 mF	27 mF
90 x 67	270 mF	160 mF	75 mF	30 mF	10 mF	8.2 mF
90 x 98	560 mF	330 mF	150 mF	62 mF	20 mF	16 mF
90 x 131	620 mF	390 mF	180 mF	68 mF	24 mF	18 mF
90 x 146	750 mF	470 mF	220 mF	82 mF	30 mF	22 mF
90 x 169	1000 mF	560 mF	270 mF	110 mF	36 mF	27 mF
90 x 194	1200 mF	680 mF	330 mF	130 mF	47 mF	36 mF
90 x 220	1300 mF	750 mF	360 mF	130 mF	47 mF	36 mF

Lifetime based on applying rated voltage, temperature and ripple current.

Screw Terminal (cont.)

ALS70/71 High CV Value & Long Life 85°C, 25 – 550 VDC (cont.)

Capacitance Range: 300 to 1,300,000 μF • **Temperature Range:** -40°C to +85°C

Lifetime: 20,000 Hours

www.kemet.com/ALS70-71



ALS7	0	A	303	DA	025	
Series	Stud Option	Termination	Capacitance Code (μF)	Size Code	Rated Voltage (VDC)	
Screw Terminal Aluminum Electrolytic	0 = Plain can 1 = Threaded mounting stud	See Termination Table	First two digits represent significant figures. Third digit specifies number of zeros.	See Dimension Table	025 = 25 040 = 40 063 = 63 100 = 100 200 = 200 250 = 250	350 = 350 400 = 400 450 = 450 500 = 500 550 = 550

Case Size	Voltage				
	350	400	450	500	550
36 x 52	560 μF	510 μF	430 μF	360 μF	300 μF
36 x 62	750 μF	620 μF	510 μF	470 μF	390 μF
36 x 82	1.1 mF	1 mF	820 μF	680 μF	560 μF
36 x 105	1.6 mF	1.3 mF	1.2 mF	1 mF	820 μF
51 x 82	2.4 mF	2 mF	1.6 mF	1.3 mF	1.2 mF
51 x 105	3.3 mF	3 mF	2.4 mF	2 mF	1.6 mF
63.5 x 131	5.6 mF	5.1 mF	4.3 mF	3.3 mF	2.7 mF
66 x 105	6.2 mF	5.1 mF	4.3 mF	3.3 mF	2.7 mF
77 x 105	8.2 mF	7.5 mF	6.2 mF	4.7 mF	3.9 mF
77 x 115	8.2 mF	7.5 mF	6.2 mF	5.1 mF	4.3 mF
77 x 146	10 mF	9.1 mF	7.5 mF	5.6 mF	5.1 mF
77 x 169	13 mF	11 mF	9.1 mF	7.5 mF	6.2 mF
77 x 194	16 mF	13 mF	12 mF	9.1 mF	7.5 mF
77 x 220	16 mF	15 mF	12 mF	10 mF	8.2 mF
90 x 67	5.1 mF	4.3 mF	3.6 mF	2.7 mF	2.4 mF
90 x 98	10 mF	8.2 mF	7.5 mF	5.6 mF	4.7 mF
90 x 131	12 mF	10 mF	8.2 mF	6.8 mF	5.6 mF
90 x 146	13 mF	12 mF	10 mF	8.2 mF	6.8 mF
90 x 169	18 mF	15 mF	13 mF	10 mF	8.2 mF
90 x 194	22 mF	18 mF	16 mF	12 mF	11 mF
90 x 220	24 mF	20 mF	16 mF	13 mF	11 mF

Lifetime based on applying rated voltage, temperature and ripple current.

Aluminum Electrolytic Capacitors

Screw Terminal (cont.)

ALS80/81 High CV Value & Long Life 85°C, 25 – 500 VDC

Capacitance Range: 300 to 1,200,000 μF • **Temperature Range:** -40°C to +85°C

Lifetime: 9,000 Hours

www.kemet.com/ALS80-81



ALS8	0	A	303	DA	025
Series	Stud Option	Termination	Capacitance Code (μF)	Size Code	Rated Voltage (VDC)
Screw Terminal Aluminum Electrolytic	0 = Plain can 1 = Threaded mounting stud	See Termination Table	First two digits represent significant figures. Third digit specifies number of zeros.	See Dimension Table	025 = 25 040 = 40 063 = 63 100 = 100 200 = 200 250 = 250 350 = 350 400 = 400 450 = 450 500 = 500

Case Size	Voltage				
	25	40	63	100	200
36 x 52	30 mF	13 mF	7.5 mF	3 mF	1.1 mF
36 x 62	39 mF	16 mF	10 mF	3.6 mF	1.4 mF
36 x 82	62 mF	24 mF	15 mF	5.6 mF	2 mF
36 x 105	82 mF	36 mF	22 mF	8.2 mF	3 mF
51 x 82	120 mF	51 mF	30 mF	12 mF	4.3 mF
51 x 105	180 mF	75 mF	47 mF	16 mF	6.2 mF
63.5 x 131	300 mF	130 mF	82 mF	30 mF	11 mF
66 x 105	300 mF	130 mF	82 mF	30 mF	11 mF
77 x 105	430 mF	180 mF	120 mF	43 mF	16 mF
77 x 115	470 mF	200 mF	120 mF	43 mF	16 mF
77 x 146	560 mF	240 mF	130 mF	51 mF	20 mF
77 x 169	680 mF	300 mF	180 mF	68 mF	24 mF
77 x 194	820 mF	360 mF	220 mF	82 mF	30 mF
77 x 220	910 mF	390 mF	240 mF	91 mF	33 mF
90 x 67	270 mF	110 mF	68 mF	24 mF	9.1 mF
90 x 98	510 mF	220 mF	130 mF	51 mF	18 mF
90 x 131	620 mF	270 mF	160 mF	62 mF	22 mF
90 x 146	750 mF	330 mF	200 mF	75 mF	27 mF
90 x 169	910 mF	390 mF	240 mF	91 mF	33 mF
90 x 194	1200 mF	510 mF	300 mF	110 mF	43 mF
90 x 220	1200 mF	510 mF	330 mF	120 mF	43 mF

Lifetime based on applying rated voltage, temperature and ripple current.

Screw Terminal (cont.)

ALS80/81 High CV Value & Long Life 85°C, 25 – 500 VDC (cont.)

Capacitance Range: 300 to 1,200,000 μF • Temperature Range: -40°C to +85°C

Lifetime: 9,000 Hours

www.kemet.com/ALS80-81



ALS8	0	A	303	DA	025
Series	Stud Option	Termination	Capacitance Code (μF)	Size Code	Rated Voltage (VDC)
Screw Terminal Aluminum Electrolytic	0 = Plain can 1 = Threaded mounting stud	See Termination Table	First two digits represent significant figures. Third digit specifies number of zeros.	See Dimension Table	025 = 25 040 = 40 063 = 63 100 = 100 200 = 200 250 = 250 350 = 350 400 = 400 450 = 450 500 = 500

Case Size	Voltage				
	250	350	400	450	500
36 x 52	750 μF	510 μF	430 μF	360 μF	300 μF
36 x 62	1 mF	620 μF	560 μF	470 μF	360 μF
36 x 82	1.5 mF	1 mF	820 μF	680 μF	560 μF
36 x 105	2.2 mF	1.3 mF	1.2 mF	1 mF	820 μF
51 x 82	3 mF	2 mF	1.6 mF	1.3 mF	1.2 mF
51 x 105	4.3 mF	3 mF	2.4 mF	2 mF	1.6 mF
63.5 x 131	7.5 mF	5.1 mF	4.3 mF	3.3 mF	2.7 mF
66 x 105	7.5 mF	5.1 mF	4.3 mF	3.3 mF	2.7 mF
77 x 105	11 mF	7.5 mF	6.2 mF	4.7 mF	3.9 mF
77 x 115	11 mF	7.5 mF	6.2 mF	5.1 mF	4.3 mF
77 x 146	13 mF	9.1 mF	7.5 mF	5.6 mF	5.1 mF
77 x 169	16 mF	11 mF	9.1 mF	7.5 mF	6.2 mF
77 x 194	22 mF	13 mF	12 mF	9.1 mF	7.5 mF
77 x 220	22 mF	15 mF	12 mF	10 mF	8.2 mF
90 x 67	6.8 mF	4.3 mF	3.6 mF	2.7 mF	2.4 mF
90 x 98	13 mF	9.1 mF	7.5 mF	5.6 mF	4.7 mF
90 x 131	16 mF	10 mF	8.2 mF	6.8 mF	5.6 mF
90 x 146	18 mF	12 mF	10 mF	8.2 mF	6.8 mF
90 x 169	24 mF	15 mF	13 mF	10 mF	8.2 mF
90 x 194	30 mF	20 mF	16 mF	13 mF	11 mF
90 x 220	30 mF	20 mF	16 mF	13 mF	11 mF

Lifetime based on applying rated voltage, temperature and ripple current.

Aluminum Electrolytic Capacitors

Snap-In

ELH General Purpose Low Impedance 85°C, 6.3 – 500 VDC

Capacitance Range: 47 to 120,000 µF • Temperature Range: -40°C to +85°C & -25°C to +85°C

Lifetime: 2,000 Hours

www.kemet.com/ELH



ELH	159	M	6R3		A	Q1	AA
Series	Capacitance Code (pF)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Snap-In Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = ±20%	6R3 = 6.3 010 = 10 016 = 16 025 = 25 035 = 35 050 = 50 063 = 63 080 = 80 100 = 100	160 = 160 180 = 180 200 = 200 250 = 250 350 = 350 400 = 400 420 = 420 450 = 450 500 = 500	A = Standard	See Dimension Table	See Ordering Options Table

Case Size	Voltage								
	6.3	10	16	25	35	50	63	80	100
22 x 25	15 mF	12 mF	8.2 mF	5.6 mF	3.9 mF	2.2 mF	1.8 mF	1.2 mF	820 µF
22 x 30	18 mF – 0.022 F	15 mF	10 mF – 0.012 F	6.8 mF	4.7 mF	2.7 mF – 3.3 mF	2.2 mF	1.5 mF	1 mF
22 x 35	27 mF	18 mF	15 mF	8.2 mF	5.6 mF	3.9 mF	2.7 mF	1.8 mF	1.2 mF
22 x 40	33 mF	22 mF	18 mF	10 mF	6.8 mF	4.7 mF	3.3 mF	2.2 mF	1.5 mF
22 x 45	39 mF	27 mF		12 mF	8.2 mF	5.6 mF	3.9 mF	2.7 mF	1.8 mF
22 x 50	39 mF	33 mF	22 mF	15 mF	10 mF	6.8 mF	4.7 mF	3.3 mF	2.2 mF
25 x 25	18 mF – 0.022 F	15 mF – 0.018 F	10 mF – 0.012 F	6.8 mF – 8.2 mF	4.7 mF – 5.6 mF	2.7 mF – 3.3 mF	2.2 mF	1.5 mF	1 mF
25 x 30	27 mF	22 mF	15 mF	10 mF	6.8 mF	3.9 mF	2.7 mF – 3.3 mF	1.8 mF – 2.2 mF	1.2 mF – 1.5 mF
25 x 35	33 mF	27 mF	18 mF	12 mF	8.2 mF	4.7 mF	3.9 mF	2.7 mF	1.8 mF
25 x 40	39 mF	33 mF	22 mF	15 mF	10 mF	5.6 mF – 6.8 mF	4.7 mF – 5.6 mF	3.3 mF	2.2 mF
25 x 45	47 mF	39 mF	27 mF	18 mF	12 mF		5.6 mF	3.9 mF	2.7 mF
25 x 50	56 mF	47 mF			15 mF	8.2 mF		4.7 mF	3.3 mF
30 x 25	27 mF	22 mF	15 mF	10 mF	6.8 mF	3.9 mF – 4.7 mF	2.7 mF – 3.3 mF	1.8 mF – 2.2 mF	1.5 mF
30 x 30	33 mF – 0.039 F	27 mF – 0.033 F	18 mF – 0.022 F	12 mF	8.2 mF – 0.01 F	5.6 mF – 6.8 mF	3.9 mF – 4.7 mF	2.7 mF – 3.3 mF	1.8 mF – 2.2 mF
30 x 35	47 mF	39 mF	27 mF	15 mF – 0.018 F	12 mF	6.8 mF	5.6 mF	3.9 mF	2.7 mF
30 x 40	56 mF	47 mF	33 mF	22 mF	15 mF	8.2 mF	6.8 mF	4.7 mF	3.3 mF
30 x 45	68 mF	56 mF	39 mF	22 mF – 0.027 F	18 mF	10 mF	8.2 mF	5.6 mF	3.9 mF
30 x 50	82 mF	68 mF	47 mF	27 mF – 0.033 F	22 mF	12 mF	10 mF	6.8 mF	
35 x 25	33 mF – 0.039 F	33 mF	22 mF	12 mF	10 mF	5.6 mF	4.7 mF	2.7 mF – 3.3 mF	1.8 mF – 2.2 mF
35 x 30	47 mF – 0.056 F	39 mF – 0.047 F	27 mF – 0.033 F	15 mF – 0.018 F	12 mF	6.8 mF – 8.2 mF	5.6 mF – 6.8 mF	3.9 mF	2.7 mF – 3.3 mF
35 x 35	68 mF	56 mF	39 mF	22 mF	15 mF	10 mF	8.2 mF	4.7 mF – 5.6 mF	3.9 mF
35 x 40	82 mF	68 mF	47 mF	22 mF – 0.027 F	18 mF	12 mF	10 mF	6.8 mF	4.7 mF
35 x 45	100 mF		56 mF	27 mF – 0.039 F	22 mF	15 mF	12 mF	8.2 mF	
35 x 50	120 mF	82 mF	68 mF	33 mF – 0.047 F	27 mF	18 mF		10 mF	5.6 mF
35 x 60			82 mF						

Lifetime based on applying rated voltage, temperature and ripple current.

Snap-In (cont.)

ELH General Purpose Low Impedance 85°C, 6.3 – 500 VDC (cont.)

Capacitance Range: 47 to 120,000 µF • Temperature Range: -40°C to +85°C & -25°C to +85°C

Lifetime: 2,000 Hours

www.kemet.com/ELH



ELH	159	M	6R3		A	Q1	AA
Series	Capacitance Code (pF)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Snap-In Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = ±20%	6R3 = 6.3 010 = 10 016 = 16 025 = 25 035 = 35 050 = 50 063 = 63 080 = 80 100 = 100	160 = 160 180 = 180 200 = 200 250 = 250 350 = 350 400 = 400 420 = 420 450 = 450 500 = 500	A = Standard	See Dimension Table	See Ordering Options Table

Case Size	Voltage								
	160	180	200	250	350	400	420	450	500
22 x 20		180 µF		120 µF	68 µF	56 µF			
22 x 25	270 µF – 390 µF	220 µF – 330 µF	180 µF – 330 µF	150 µF – 180 µF	82 µF	68 µF – 100 µF		47 µF – 68 µF	
22 x 30	390 µF – 560 µF	330 µF – 390 µF	270 µF – 390 µF	220 µF – 330 µF	100 µF – 120 µF	100 µF – 120 µF	120 µF	68 µF – 120 µF	
22 x 35		470 µF – 560 µF	470 µF	220 µF – 390 µF	150 µF	120 µF – 150 µF	150 µF	100 µF – 150 µF	
22 x 40	680 µF	560 µF	560 µF	390 µF – 470 µF	180 µF	150 µF – 180 µF	180 µF	120 µF	100 µF
22 x 45	820 µF	680 µF	680 µF	470 µF – 560 µF	220 µF	180 µF	220 µF	150 µF – 220 µF	
22 x 50	1 mF	820 µF		560 µF		220 µF – 270 µF	220 µF		150 µF
25 x 20	330 µF	270 µF		180 µF	82 µF – 100 µF	68 µF – 82 µF			47 µF
25 x 25	390 µF – 470 µF	330 µF – 390 µF	270 µF – 390 µF	220 µF – 330 µF	120 µF	100 µF – 120 µF		68 µF – 82 µF	
25 x 30	560 µF – 680 µF	470 µF – 560 µF	470 µF	330 µF	150 µF – 180 µF	150 µF	150 µF	100 µF – 120 µF	
25 x 35	820 µF	680 µF	560 µF – 680 µF	390 µF – 470 µF	220 µF	180 µF		150 µF	
25 x 40	1 mF	820 µF	820 µF	560 µF	270 µF	220 µF – 270 µF	220 µF – 270 µF	180 µF	
25 x 45	1.2 mF	1 mF	820 µF – 1 mF	680 µF		270 µF – 330 µF	220 µF – 330 µF		
25 x 50			1 mF – 1.2 mF	680 µF	330 µF	330 µF	330 µF	220 µF – 270 µF	
30 x 25	390 µF – 680 µF	470 µF – 560 µF	470 µF – 560 µF	330 µF – 390 µF	150 µF – 180 µF	150 µF	150 µF	100 µF – 120 µF	100 µF
30 x 30	820 µF – 1 mF	680 µF – 820 µF	680 µF – 820 µF	470 µF – 560 µF	180 µF – 220 µF	180 µF – 220 µF		150 µF	120 µF
30 x 35	1 mF – 1.2 mF	820 µF – 1 mF	820 µF – 1 mF	560 µF – 820 µF	270 µF	270 µF		180 µF	
30 x 40	1.5 mF	1.2 mF	1 mF – 1.2 mF	680 µF	330 µF – 390 µF	330 µF – 390 µF	270 µF – 330 µF	220 µF – 330 µF	180 µF
30 x 45	1.5 mF – 1.8 mF	1.5 mF	1.2 mF – 1.5 mF	820 µF – 1 mF	470 µF	390 µF – 470 µF	330 µF – 470 µF	270 µF – 390 µF	220 µF
30 x 50	1.8 mF		1.5 mF	1 mF		470 µF – 560 µF	470 µF – 560 µF	330 µF – 470 µF	270 µF
35 x 25	820 µF – 1 mF	680 µF – 820 µF	680 µF	470 µF – 680 µF	220 µF – 270 µF	220 µF		180 µF	120 µF
35 x 30	1.2 mF – 1.5 mF	1 mF – 1.2 mF	820 µF – 1.2 mF	680 µF – 820 µF	330 µF – 390 µF	270 µF – 330 µF		220 µF	180 µF
35 x 35	1.5 mF – 1.8 mF	1.2 mF – 1.5 mF	1.2 mF – 1.5 mF	820 µF – 1 mF	470 µF	390 µF		270 µF	150 µF – 220 µF
35 x 40	1.8 mF – 2.2 mF	1.5 mF – 1.8 mF	1.5 mF – 1.8 mF	1 mF – 1.2 mF	560 µF	470 µF		330 µF	270 µF
35 x 45	2.2 mF	1.8 mF – 2.2 mF	1.8 mF – 2.2 mF	1.2 mF – 1.5 mF	680 µF	560 µF	560 µF	390 µF	330 µF
35 x 50	2.7 mF	2.2 mF	2.2 mF	1.5 mF		680 µF		470 µF – 560 µF	390 µF
35 x 60								680 µF	

Lifetime based on applying rated voltage, temperature and ripple current.

Aluminum Electrolytic Capacitors

Snap-In (cont.)

ALC10 High Ripple and Long Life 85°C, 35 – 600 VDC

Capacitance Range: 56 to 82,000 µF • Temperature Range: -40°C to +85°C

Lifetime: 18,000 Hours

www.kemet.com/ALC10



ALC10	A	392	BB	040	
Series	Termination	Capacitance Code (µF)	Size Code	Rated Voltage (VDC)	
Snap-In Aluminum Electrolytic	See Termination Table	First two digits represent significant figures. Third digit specifies number of zeros.	See Dimension Table	035 = 35 040 = 40 063 = 63 100 = 100 200 = 200 250 = 250	350 = 350 400 = 400 450 = 450 500 = 500 550 = 550 600 = 600

*600 V available on request.

Case Size	Voltage											
	35	40	63	100	200	250	350	400	450	500	550	600
25 x 30		3.9 mF	2.2 mF	1 mF	330 µF	220 µF	120 µF	100 µF	68 µF	56 µF	56 µF	47 µF
25 x 35		4.7 mF	2.7 mF	1.2 mF	390 µF	270 µF – 330 µF	150 µF	120 µF	100 µF	68 µF	68 µF	56 µF
25 x 40		5.6 mF	3.3 mF	1.5 mF	470 µF	330 µF	180 µF	150 µF	120 µF – 150 µF	82 µF	82 µF	82 µF
30 x 30		5.6 mF	3.3 mF	1.5 mF	470 µF	330 µF	180 µF	150 µF	120 µF – 150 µF	82 µF – 100 µF	82 µF	82 µF
30 x 35		6.8 mF	4.7 mF	1.8 mF	560 µF	470 µF	270 µF	180 µF – 220 µF	150 µF	100 µF – 120 µF	120 µF	100 µF
30 x 40		8.2 mF	5.6 mF	2.2 mF	680 µF	560 µF	330 µF	220 µF	180 µF	150 µF	150 µF	120 µF
30 x 50		12 mF	6.8 mF	3.3 mF	1 mF	680 µF	390 µF	330 µF	220 µF – 330 µF	180 µF	180 µF	150 µF
35 x 35		10 mF	6.8 mF	2.7 mF	820 µF	680 µF	390 µF	270 µF – 330 µF	220 µF – 270 µF	180 µF	180 µF	150 µF
35 x 40		12 mF	8.2 mF	3.3 mF	1 mF	820 µF	470 µF	330 µF	270 µF	220 µF	220 µF	180 µF
35 x 50		18 mF	10 mF	4.7 mF	1.2 mF – 1.5 mF	1 mF	560 µF	390 µF – 560 µF	330 µF – 470 µF	270 µF	270 µF	220 µF
35 x 60						1.2 mF	820 µF	560 µF – 680 µF	470 µF	390 µF	330 µF	270 µF
35 x 80						1.8 mF	1 mF	820 µF – 1 mF	680 µF	560 µF	470 µF	390 µF
40 x 30		15 mF	8.2 mF	2.7 mF	820 µF	680 µF	330 µF	270 µF	220 µF	180 µF	180 µF	150 µF
40 x 35		18 mF	10 mF	3.3 mF	1 mF		390 µF	330 µF	270 µF	220 µF	220 µF	180 µF
40 x 40		22 mF	12 mF	3.9 mF	1.2 mF	820 µF	470 µF	390 µF – 470 µF	330 µF	270 µF	270 µF	220 µF
40 x 45				4.7 mF	1.5 mF	1 mF	560 µF	470 µF	390 µF	330 µF	330 µF	270 µF
40 x 50	33 mF	27 mF	15 mF	5.6 mF	1.8 mF	1.2 mF	680 µF	560 µF	470 µF	390 µF	390 µF	330 µF
40 x 55				6.8 mF		1.5 mF	820 µF					
40 x 60		33 mF	18 mF	8.2 mF	2.2 mF	1.8 mF	820 µF	680 µF	560 µF	470 µF	470 µF	390 µF
40 x 80	56 mF	47 mF	27 mF	12 mF	3.3 mF	2.2 mF	1.2 mF	1 mF	820 µF – 1 mF	680 µF	680 µF	560 µF
40 x 105		82 mF	39 mF	18 mF	4.7 mF	3.9 mF	1.8 mF	1.5 mF	1.2 mF	1 mF	1 mF	820 µF
45 x 105					5.6 mF	4.7 mF	2.7 mF	2.2 mF	1.8 mF	1.5 mF	1.2 mF	1 mF
50 x 80												1 mF
50 x 105					8.2 mF	5.6 mF	3.3 mF	2.7 mF	2.2 mF	1.8 mF	1.5 mF	1.2 mF

Lifetime based on applying rated voltage, temperature and ripple current.

Snap-In (cont.)

ELG General Purpose Low ESR 105°C, 6.3 – 500 VDC

Capacitance Range: 47 to 82,000 μ F • Temperature Range: -40°C to +105°C & -25°C to +105°C

Lifetime: 2,000 Hours

www.kemet.com/ELG



ELG	129	M	6R3		A	Q1	AA
Series	Capacitance Code (pF)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Snap-In Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	6R3 = 6.3 010 = 10 016 = 16 025 = 25 035 = 35 050 = 50 063 = 63 080 = 80 100 = 100	160 = 160 180 = 180 200 = 200 250 = 250 350 = 350 400 = 400 420 = 420 450 = 450 500 = 500	A = Standard	See Dimension Table	See Ordering Options Table

Case Size	Voltage								
	6.3	10	16	25	35	50	63	80	100
22 x 25	12 mF	10 mF	6.8 mF	4.7 mF	3.3 mF	1.8 mF	1.2 mF	820 μ F	560 μ F – 680 μ F
22 x 30	15 mF – 0.018 F	12 mF – 0.015 F	8.2 mF – 0.01 F	5.6 mF – 6.8 mF	3.9 mF	2.2 mF – 2.7 mF	1.5 mF – 1.8 mF	1 mF – 1.2 mF	820 μ F
22 x 35	22 mF	18 mF	12 mF	8.2 mF	4.7 mF – 5.6 mF	3.3 mF	2.2 mF	1.5 mF	1 mF
22 x 40	27 mF	22 mF	15 mF	10 mF	6.8 mF	3.9 mF	2.7 mF	1.8 mF	1.2 mF
22 x 45	33 mF		18 mF	12 mF		4.7 mF		2.2 mF	1.5 mF
22 x 50		27 mF			8.2 mF	5.6 mF	3.3 mF		
25 x 25	15 mF – 0.018 F	10 mF – 0.015 F	8.2 mF – 0.01 F	5.6 mF – 6.8 mF	3.9 mF – 4.7 mF	2.2 mF – 2.7 mF	1.5 mF – 1.8 mF	1 mF – 1.2 mF	820 μ F
25 x 30	22 mF	18 mF	12 mF	8.2 mF	5.6 mF	3.3 mF	2.2 mF	1.5 mF	1 mF
25 x 35	27 mF	22 mF	15 mF	10 mF	6.8 mF	3.9 mF	2.7 mF	1.5 mF – 2.2 mF	1.2 mF
25 x 40	33 mF	27 mF	18 mF	12 mF	8.2 mF	4.7 mF – 5.6 mF	3.3 mF		1.5 mF
25 x 45		33 mF	22 mF	15 mF	10 mF		3.9 mF	2.7 mF	1.8 mF
25 x 50	39 mF – 0.047 F	39 mF	27 mF	18 mF	12 mF	6.8 mF	4.7 mF	3.3 mF	2.2 mF
30 x 25	22 mF	22 mF	12 mF	8.2 mF	5.6 mF	3.9 mF	2.2 mF – 2.7 mF	1.5 mF – 1.8 mF	1.2 mF
30 x 30	27 mF – 0.033 F	27 mF	15 mF – 0.018 F	10 mF – 0.012 F	6.8 mF – 8.2 mF	4.7 mF	3.3 mF	2.2 mF	1.5 mF
30 x 35	39 mF	33 mF	22 mF	15 mF	10 mF	5.6 mF	3.9 mF	2.7 mF	1.8 mF
30 x 40	47 mF	39 mF	27 mF	18 mF	12 mF	6.8 mF	4.7 mF	3.3 mF	2.2 mF
30 x 45	56 mF	47 mF	33 mF	22 mF	15 mF	8.2 mF	5.6 mF	3.9 mF	2.7 mF
30 x 50	68 mF	56 mF	39 mF		22 mF	10 mF	6.8 mF	4.7 mF	3.3 mF – 3.9 mF
35 x 25	27 mF – 0.033 F	27 mF	15 mF – 0.018 F	10 mF – 0.012 F	6.8 mF – 8.2 mF	4.7 mF	3.3 mF	2.2 mF	1.5 mF
35 x 30	39 mF	33 mF – 0.039 F	22 mF – 0.027 F	15 mF	10 mF – 0.012 F	5.6 mF – 6.8 mF	3.9 mF – 4.7 mF	2.7 mF – 3.3 mF	1.8 mF – 2.2 mF
35 x 35	56 mF	47 mF	33 mF	18 mF – 0.022 F	15 mF	8.2 mF	5.6 mF	3.9 mF	2.7 mF
35 x 40	68 mF	56 mF	39 mF		18 mF	10 mF	6.8 mF	4.7 mF	3.3 mF – 4.7 mF
35 x 45	82 mF		47 mF – 0.056 F	27 mF – 0.039 F		12 mF	8.2 mF	5.6 mF	3.9 mF
35 x 50		68 mF	68 mF	33 mF – 0.047 F			10 mF	6.8 mF	4.7 mF – 6.8 mF

Lifetime based on applying rated voltage, temperature and ripple current.

Aluminum Electrolytic Capacitors

Snap-In (cont.)

ELG General Purpose Low ESR 105°C, 6.3 – 500 VDC (cont.)

Capacitance Range: 47 to 82,000 µF • Temperature Range: -40°C to +105°C & -25°C to +105°C

Lifetime: 2,000 Hours

www.kemet.com/ELG



ELG	129	M	6R3		A	Q1	AA
Series	Capacitance Code (pF)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Snap-In Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = ±20%	6R3 = 6.3 010 = 10 016 = 16 025 = 25 035 = 35 050 = 50 063 = 63 080 = 80 100 = 100	160 = 160 180 = 180 200 = 200 250 = 250 350 = 350 400 = 400 420 = 420 450 = 450 500 = 500	A = Standard	See Dimension Table	See Ordering Options Table

Case Size	Voltage								
	160	180	200	250	350	400	420	450	500
22 x 20	220 µF	180 µF	150 µF – 180 µF	120 µF	56 µF	47 µF – 56 µF			
22 x 25	270 µF – 330 µF	220 µF – 330 µF	220 µF – 270 µF	150 µF – 220 µF	68 µF – 82 µF	68 µF – 82 µF		47 µF – 56 µF	47 µF
22 x 30	390 µF – 470 µF	330 µF – 470 µF	330 µF – 390 µF	220 µF – 270 µF	100 µF	82 µF – 120 µF		68 µF – 100 µF	56 µF
22 x 35	470 µF – 560 µF	470 µF	390 µF – 470 µF	270 µF – 330 µF	120 µF	100 µF – 150 µF	150 µF	82 µF – 120 µF	82 µF
22 x 40	560 µF	560 µF	470 µF – 560 µF	330 µF – 390 µF	150 µF	150 µF – 180 µF	150 µF – 180 µF	100 µF – 150 µF	
22 x 45	680 µF	680 µF	560 µF	390 µF – 470 µF	180 µF		270 µF	120 µF – 180 µF	100 µF
22 x 50	820 µF	680 µF – 820 µF	680 µF	470 µF	220 µF	180 µF		150 µF – 270 µF	120 µF
25 x 20	330 µF	270 µF	220 µF	180 µF	82 µF	68 µF			
25 x 25	390 µF – 470 µF	330 µF – 390 µF	270 µF – 390 µF	220 µF – 270 µF	100 µF	82 µF		68 µF	68 µF
25 x 30	560 µF	470 µF	390 µF – 470 µF	270 µF – 330 µF	120 µF – 180 µF	100 µF – 150 µF	150 µF	82 µF – 100 µF	82 µF
25 x 35	680 µF	560 µF – 680 µF	560 µF	390 µF – 470 µF	180 µF	150 µF	180 µF	120 µF	120 µF
25 x 40	820 µF	680 µF – 820 µF	680 µF	470 µF	220 µF	180 µF	220 µF	150 µF	
25 x 45	1 mF	820 µF – 1 mF	820 µF	560 µF	270 µF	220 µF – 270 µF	220 µF	180 µF	
25 x 50	1.2 mF	1 mF – 1.2 mF	820 µF	680 µF		270 µF – 330 µF	330 µF	220 µF	180 µF
30 x 25	560 µF – 680 µF	470 µF – 560 µF	390 µF – 470 µF	270 µF – 330 µF	120 µF – 150 µF	120 µF		82 µF – 100 µF	100 µF
30 x 30	820 µF	680 µF – 820 µF	560 µF – 680 µF	390 µF – 560 µF	180 µF – 220 µF	150 µF – 180 µF		120 µF – 150 µF	120 µF
30 x 35	1 mF	820 µF – 1 mF	820 µF	560 µF – 680 µF	270 µF	220 µF		180 µF	150 µF
30 x 40	1.2 mF	1 mF – 1.2 mF	1 mF	680 µF – 820 µF	330 µF	270 µF – 390 µF	220 µF – 330 µF	220 µF	180 µF
30 x 45	1.5 mF	1.2 mF – 1.5 mF	1 mF – 1.2 mF	820 µF	390 µF	330 µF – 470 µF	390 µF	270 µF – 330 µF	150 µF – 220 µF
30 x 50	1.8 mF	1.5 mF – 1.8 mF	1.2 mF			390 µF – 470 µF	470 µF	330 µF – 390 µF	270 µF
30 x 60						560 µF			
35 x 25	820 µF	680 µF – 820 µF	680 µF	470 µF	220 µF	150 µF – 180 µF		120 µF – 150 µF	150 µF
35 x 30	1 mF – 1.2 mF	1 mF – 1.2 mF	820 µF – 1 mF	560 µF – 820 µF	270 µF	220 µF	270 µF	180 µF – 220 µF	180 µF
35 x 35	1.5 mF	1.2 mF – 1.5 mF	1 mF – 1.2 mF	680 µF – 1 mF	330 µF – 390 µF	270 µF – 330 µF	330 µF	270 µF	220 µF
35 x 40	1.8 mF	1.5 mF – 1.8 mF	1.2 mF	1 mF – 1.2 mF	470 µF	390 µF – 470 µF	470 µF	330 µF	270 µF
35 x 45	1.8 mF – 2.2 mF	2.2 mF	1.5 mF	1.2 mF	560 µF	470 µF – 560 µF	560 µF	390 µF – 470 µF	330 µF
35 x 50	2.2 mF	1.8 mF – 2.2 mF	1.8 mF	1.5 mF		560 µF – 1 mF		470 µF – 560 µF	390 µF
35 x 60						680 µF		560 µF – 680 µF	470 µF

Lifetime based on applying rated voltage, temperature and ripple current.

Snap-In (cont.)

ELD High Reliability & High Ripple Current 105°C, 10 – 500 VDC

Capacitance Range: 47 to 68,000 µF • **Temperature Range:** -40°C to +105°C & -25°C to +105°C

Lifetime: 3,000 Hours

www.kemet.com/ELD



ELD	109	M	010		A	Q1	AA
Series	Capacitance Code (pF)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Snap-In Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = ±20%	010 = 10 016 = 16 025 = 25 035 = 35 050 = 50 063 = 63 80 = 80 100 = 100	160 = 160 180 = 180 200 = 200 250 = 250 315 = 315 350 = 350 400 = 400 450 = 450 500 = 500	A = Standard	See Dimension Table	See Ordering Options Table

Case Size	Voltage							
	10	16	25	35	50	63	80	100
22 x 25	10 mF	6.8 mF	3.9 mF	2.7 mF	1.5 mF	1.2 mF	820 µF	560 µF
22 x 30	12 mF	8.2 mF	4.7 mF – 5.6 mF	3.3 mF – 3.9 mF	1.8 mF – 2.2 mF	1.5 mF	1 mF	680 µF – 820 µF
22 x 35	15 mF	10 mF	6.8 mF	4.7 mF	2.7 mF	1.8 mF	1.2 mF	1 mF
22 x 40	18 mF	12 mF	8.2 mF	5.6 mF	3.3 mF	2.2 mF	1.5 mF	1.2 mF
22 x 45	22 mF	15 mF	10 mF	6.8 mF	3.9 mF	2.7 mF	1.8 mF	1.5 mF
22 x 50		18 mF	12 mF	8.2 mF	4.7 mF			
25 x 25	12 mF	8.2 mF	5.6 mF	4.7 mF	2.2 mF	1.5 mF	1.2 mF	820 µF
25 x 30	15 mF – 0.018 F	10 mF – 0.012 F	6.8 mF	5.6 mF	2.7 mF – 3.3 mF	1.8 mF – 2.2 mF	1.5 mF	1 mF
25 x 35	22 mF	15 mF	8.2 mF	6.8 mF	3.9 mF	2.7 mF	1.8 mF	1.2 mF
25 x 40	27 mF	18 mF	10 mF	8.2 mF	4.7 mF	3.3 mF	2.2 mF	1.5 mF
25 x 45	33 mF	22 mF	12 mF	10 mF	5.6 mF	3.9 mF	2.7 mF	1.8 mF
25 x 50	39 mF		15 mF	12 mF		4.7 mF		2.2 mF
30 x 25	15 mF	12 mF	8.2 mF	5.6 mF	3.3 mF	2.2 mF	1.5 mF	1.2 mF
30 x 30	18 mF – 0.022 F	15 mF – 0.018 F	10 mF	6.8 mF – 8.2 mF	3.9 mF – 4.7 mF	2.7 mF – 3.3 mF	1.8 mF – 2.2 mF	1.5 mF
30 x 35	27 mF	22 mF	12 mF	10 mF	5.6 mF	3.9 mF	2.7 mF	1.8 mF
30 x 40	33 mF	27 mF	15 mF	12 mF	6.8 mF	4.7 mF	3.3 mF	2.2 mF
30 x 45	39 mF		18 mF	15 mF	8.2 mF	5.6 mF	3.9 mF	2.7 mF
30 x 50		33 mF	22 mF			6.8 mF		3.3 mF
35 x 25	22 mF	18 mF	12 mF	8.2 mF	4.7 mF	3.3 mF	2.2 mF	1.5 mF
35 x 30	27 mF – 0.033 F	22 mF	15 mF	10 mF – 0.012 F	5.6 mF – 6.8 mF	3.9 mF – 4.7 mF	2.7 mF	1.8 mF
35 x 35	39 mF	27 mF	18 mF	15 mF	8.2 mF	5.6 mF	3.3 mF – 3.9 mF	2.2 mF – 2.7 mF
35 x 40	47 mF	33 mF	22 mF	18 mF	10 mF	6.8 mF	4.7 mF	3.3 mF
35 x 45	56 mF	39 mF	27 mF			8.2 mF		3.9 mF
35 x 50	68 mF	47 mF		22 mF	12 mF		5.6 mF	4.7 mF

Lifetime based on applying rated voltage, temperature and ripple current.

Aluminum Electrolytic Capacitors

Snap-In (cont.)

ELD High Reliability & High Ripple Current 105°C, 10 – 500 VDC (cont.)

Capacitance Range: 47 to 68,000 µF • Temperature Range: -40°C to +105°C & -25°C to +105°C

Lifetime: 3,000 Hours

www.kemet.com/ELD



ELD	109	M	010		A	Q1	AA
Series	Capacitance Code (pF)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Snap-In Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = ±20%	010 = 10 016 = 16 025 = 25 035 = 35 050 = 50 063 = 63 80 = 80 100 = 100	160 = 160 180 = 180 200 = 200 250 = 250 315 = 315 350 = 350 400 = 400 450 = 450 500 = 500	A = Standard	See Dimension Table	See Ordering Options Table

Case Size	Voltage								
	160	180	200	250	315	350	400	450	500
22 x 25	270 µF	270 µF	220 µF	150 µF	82 µF	82 µF	68 µF	56 µF	47 µF
22 x 30	330 µF – 390 µF	330 µF	270 µF – 330 µF	180 µF – 220 µF	100 µF – 120 µF	100 µF	82 µF	68 µF	56 µF
22 x 35	470 µF	390 µF	390 µF	270 µF	150 µF	120 µF	100 µF	82 µF	82 µF
22 x 40	560 µF	270 µF	470 µF		180 µF	150 µF	120 µF	100 µF	
22 x 45	680 µF	560 µF	560 µF	390 µF	220 µF	180 µF	150 µF	120 µF	100 µF
22 x 50	820 µF	680 µF		470 µF		220 µF	180 µF	150 µF	120 µF
25 x 25	390 µF	390 µF	330 µF	220 µF – 270 µF	120 µF	100 µF	82 µF – 100 µF	82 µF	68 µF
25 x 30	470 µF – 560 µF	470 µF	390 µF	330 µF	150 µF	120 µF	120 µF	100 µF	82 µF
25 x 35	680 µF	560 µF	470 µF – 560 µF	390 µF	180 µF	150 µF	150 µF	120 µF	120 µF
25 x 40	820 µF	680 µF		470 µF – 560 µF	220 µF	180 µF	180 µF	150 µF	
25 x 45	1 mF	820 µF	680 µF – 820 µF		270 µF	220 µF	220 µF	180 µF	150 µF
25 x 50		1 mF		680 µF	330 µF	270 µF	270 µF	220 µF	180 µF
30 x 25	560 µF	560 µF	470 µF	390 µF	180 µF	150 µF	120 µF	120 µF	100 µF
30 x 30	680 µF – 820 µF	680 µF	560 µF	470 µF	220 µF	180 µF	150 µF – 180 µF	150 µF	120 µF
30 x 35	1 mF	820 µF	680 µF – 820 µF	560 µF	270 µF	220 µF	220 µF	180 µF	150 µF
30 x 40	1.2 mF	1 mF		680 µF	330 µF	270 µF	270 µF	220 µF	180 µF
30 x 45		1.2 mF	1 mF	820 µF	390 µF	330 µF	330 µF	270 µF	220 µF
30 x 50	1.5 mF		1.2 mF	1 mF	470 µF	390 µF	390 µF	330 µF	270 µF
35 x 25	820 µF	680 µF		390 µF		220 µF	150 µF – 180 µF	180 µF	150 µF
35 x 30	1 mF	820 µF – 1 mF	680 µF – 820 µF	470 µF – 560 µF	330 µF – 390 µF	270 µF	220 µF – 270 µF	220 µF	180 µF
35 x 35	1.2 mF	1.2 mF	1 mF	680 µF	470 µF	330 µF	330 µF	270 µF	220 µF
35 x 40	1.5 mF	1.5 mF	1.2 mF	820 µF	560 µF	390 µF	390 µF	330 µF	270 µF
35 x 45	1.8 mF		1.5 mF	1 mF	680 µF	470 µF	470 µF	390 µF	330 µF
35 x 50	2.2 mF	1.8 mF		1.2 mF		560 µF		470 µF	390 µF
35 x 60									470 µF

Lifetime based on applying rated voltage, temperature and ripple current.

Snap-In (cont.)

ALC40 High Ripple & Long Life 105°C, 25 – 500 VDC

Capacitance Range: 47 to 120,000 μ F • Temperature Range: -40°C to +105°C

Lifetime: 9,000 Hours

www.kemet.com/ALC40



ALC40	A	822	BB	025	
Series	Termination	Capacitance Code (μ F)	Size Code	Rated Voltage (VDC)	
Snap-In Aluminum Electrolytic	See Termination Table	First two digits represent significant figures. Third digit specifies number of zeros.	See Dimension Table	025 = 25 040 = 40 063 = 63 100 = 100 200 = 200	250 = 250 350 = 350 400 = 400 450 = 450 500 = 500

Case Size	Voltage									
	25	40	63	100	200	250	350	400	450	500
25 x 30	8.2 mF	3.9 mF	2.2 mF	820 μ F	270 μ F	220 μ F	120 μ F	100 μ F	47 μ F	56 μ F
25 x 35	10 mF	5.6 mF	3.3 mF	1 mF	390 μ F	270 μ F	150 μ F	120 μ F	56 μ F	68 μ F
25 x 40	12 mF	6.8 mF	3.9 mF	1.2 mF	470 μ F	330 μ F	180 μ F	150 μ F	68 μ F	82 μ F
30 x 30	12 mF	5.6 mF	3.9 mF	1.2 mF	470 μ F	330 μ F	180 μ F	150 μ F	68 μ F	82 μ F
30 x 35	15 mF	6.8 mF – 8.2 mF	4.7 mF	1.5 mF	560 μ F	390 μ F	220 μ F	180 μ F	82 μ F	120 μ F
30 x 40	18 mF	10 mF	5.6 mF	1.8 mF	680 μ F	470 μ F	270 μ F	220 μ F	100 μ F	
30 x 50	27 mF	12 mF	6.8 mF – 8.2 mF	2.2 mF	820 μ F	560 μ F	390 μ F	330 μ F	150 μ F	180 μ F
35 x 35	22 mF	12 mF	6.8 mF	2.2 mF	820 μ F	560 μ F	330 μ F	270 μ F	120 μ F	150 μ F
35 x 40	27 mF	15 mF	8.2 mF	2.7 mF	1 mF	680 μ F	390 μ F	330 μ F	150 μ F	180 μ F
35 x 45								470 μ F		
35 x 50	33 mF – 0.039 F	18 mF	10 mF	3.3 mF	1.2 mF	820 μ F	470 μ F – 560 μ F	390 μ F – 470 μ F	180 μ F – 330 μ F	270 μ F
35 x 60						1 mF	560 μ F	470 μ F	330 μ F – 470 μ F	330 μ F
35 x 80						1.5 mF	820 μ F	680 μ F	470 μ F	470 μ F
40 x 30	27 mF	12 mF	5.6 mF	2.2 mF	680 μ F	470 μ F	270 μ F	220 μ F	150 μ F	180 μ F
40 x 35	33 mF		6.8 mF		820 μ F	560 μ F		270 μ F	180 μ F	220 μ F
40 x 40	39 mF	15 mF	8.2 mF	2.7 mF	1 mF	680 μ F	390 μ F	330 μ F	220 μ F	270 μ F
40 x 45		18 mF	10 mF	3.3 mF	1.2 mF	820 μ F	470 μ F	390 μ F		
40 x 50	47 mF	22 mF	12 mF	3.9 mF	1.5 mF	1 mF	560 μ F	470 μ F	270 μ F	390 μ F
40 x 55	56 mF	27 mF		4.7 mF		1.2 mF		560 μ F	330 μ F	470 μ F
40 x 60			15 mF	5.6 mF	1.8 mF		680 μ F	680 μ F	390 μ F	
40 x 80	82 mF	47 mF	22 mF	8.2 mF	2.7 mF	1.8 mF	1 mF	1 mF	560 μ F – 820 μ F	680 μ F
40 x 105	120 mF	68 mF	33 mF	10 mF	3.9 mF	2.7 mF	1.5 mF	1.2 mF	820 μ F	820 μ F
45 x 105					5.6 mF	3.9 mF	2.2 mF	1.8 mF	1.2 mF	1 mF
50 x 105					6.8 mF	4.7 mF	2.7 mF	2.2 mF	1.5 mF	1.2 mF

Lifetime based on applying rated voltage, temperature and ripple current.

Aluminum Electrolytic Capacitors

Press-Fit

ALF20 No-Solder Terminations, High Ripple & Long Life 85°C, 35 – 600 VDC

Capacitance Range: 150 to 100,000 μ F • Temperature Range: -40°C to +105°C

Lifetime: 18,000 Hours

www.kemet.com/ALF20



ALF20	C	392	EF	040	
Series	Termination	Capacitance Code (μ F)	Size Code	Rated Voltage (VDC)	
Press-Fit Aluminum Electrolytic	See Termination Table	First two digits represent significant figures. Third digit specifies number of zeros.	See Dimension Table	035 = 35 040 = 40 063 = 63 100 = 100 200 = 200 250 = 250	350 = 350 400 = 400 450 = 450 500 = 500 550 = 550 600 = 600

Case Size	Voltage											
	35	40	63	100	200	250	350	400	450	500	550	600
35 x 35		10 mF	6.8 mF	2.7 mF	820 μ F	680 μ F	390 μ F	270 μ F – 330 μ F	220 μ F – 270 μ F	180 μ F	180 μ F	150 μ F
35 x 40		12 mF	8.2 mF	3.3 mF	1 mF	820 μ F	470 μ F	330 μ F	270 μ F – 330 μ F	220 μ F	220 μ F	180 μ F
35 x 45								470 μ F				
35 x 50		18 mF	10 mF	4.7 mF	1.2 mF – 1.5 mF	1 mF	560 μ F	390 μ F – 560 μ F	330 μ F – 560 μ F	270 μ F – 330 μ F	270 μ F	220 μ F
35 x 60						1.2 mF	820 μ F	560 μ F – 680 μ F	470 μ F	390 μ F	330 μ F	270 μ F
35 x 80						1.8 mF	1 mF	820 μ F – 1 mF	680 μ F	560 μ F – 680 μ F	470 μ F	390 μ F
40 x 30		15 mF	8.2 mF	2.7 mF	820 μ F	680 μ F	330 μ F	270 μ F	220 μ F	180 μ F	180 μ F	150 μ F
40 x 35		18 mF	10 mF	3.3 mF	1 mF		390 μ F	330 μ F	270 μ F	220 μ F	220 μ F	180 μ F
40 x 40		22 mF	12 mF	3.9 mF	1.2 mF	820 μ F	470 μ F	390 μ F – 470 μ F	330 μ F	270 μ F	270 μ F	220 μ F
40 x 45				4.7 mF	1.5 mF	1 mF	560 μ F	470 μ F	390 μ F	330 μ F	330 μ F	270 μ F
40 x 50	33 mF	27 mF	15 mF	5.6 mF	1.8 mF	1.2 mF	680 μ F	560 μ F	470 μ F	390 μ F	390 μ F	330 μ F
40 x 55				6.8 mF		1.5 mF	820 μ F					
40 x 60		33 mF	18 mF	8.2 mF	2.2 mF	1.8 mF	820 μ F	680 μ F	560 μ F	470 μ F	470 μ F	390 μ F
40 x 70									1 mF			
40 x 80	56 mF	47 mF	27 mF	12 mF	3.3 mF	2.2 mF	1.2 mF	1 mF	820 μ F – 1 mF	680 μ F	680 μ F	560 μ F
40 x 105	100 mF	82 mF	39 mF	18 mF	4.7 mF	3.9 mF	1.8 mF	1.5 mF	1.2 mF	1 mF	1 mF	820 μ F
45 x 105					5.6 mF	4.7 mF	2.7 mF	2.2 mF	1.8 mF	1.5 mF	1.2 mF	1 mF
50 x 80												1 mF
50 x 105					8.2 mF	5.6 mF	3.3 mF	2.7 mF	2.2 mF	1.8 mF	1.5 mF	1.2 mF

Lifetime based on applying rated voltage, temperature and ripple current.

Press-Fit (cont.)

ALF40 No-Solder Terminations, High Ripple & Long Life 105°C, 25 – 500 VDC

Capacitance Range: 150 to 120,000 µF • Temperature Range: -40°C to +105°C

Lifetime: 9,000 Hours

www.kemet.com/ALF40



ALF40	C	822	EF	025	
Series	Termination	Capacitance Code (µF)	Size Code	Rated Voltage (VDC)	
Press-Fit Aluminum Electrolytic	See Termination Table	First two digits represent significant figures. Third digit specifies number of zeros.	See Dimension Table	025 = 25 040 = 40 063 = 63 100 = 100 200 = 200	250 = 250 350 = 350 400 = 400 500 = 500

Case Size	Voltage									
	25	40	63	100	200	250	350	400	450	500
35 x 35	22 mF	12 mF	6.8 mF	2.2 mF	820 µF	560 µF	330 µF	270 µF	120 µF	150 µF
35 x 40	27 mF	15 mF	8.2 mF	2.7 mF	1 mF	680 µF	390 µF	330 µF	150 µF	180 µF
35 x 45								470 µF		
35 x 50	33 mF – 0.039 F	18 mF	10 mF	3.3 mF	1.2 mF	820 µF	470 µF – 560 µF	390 µF – 470 µF	180 µF – 330 µF	270 µF
35 x 60						1 mF	560 µF	470 µF	330 µF – 470 µF	330 µF
35 x 80						1.5 mF	820 µF	680 µF	470 µF	470 µF
40 x 30	27 mF	12 mF	5.6 mF	2.2 mF	680 µF	470 µF	270 µF	220 µF	150 µF	180 µF
40 x 35	33 mF		6.8 mF		820 µF	560 µF		270 µF	180 µF	220 µF
40 x 40	39 mF	15 mF	8.2 mF	2.7 mF	1 mF	680 µF	390 µF	330 µF	220 µF	270 µF
40 x 45		18 mF	10 mF	3.3 mF	1.2 mF	820 µF	470 µF	390 µF		
40 x 50	47 mF	22 mF	12 mF	3.9 mF	1.5 mF	1 mF	560 µF	470 µF	270 µF	390 µF
40 x 55	56 mF	27 mF		4.7 mF		1.2 mF		560 µF	330 µF	470 µF
40 x 60			15 mF	5.6 mF	1.8 mF		680 µF	680 µF	390 µF	
40 x 80	82 mF	47 mF	22 mF	8.2 mF	2.7 mF	1.8 mF	1 mF	1 mF	560 µF – 820 µF	680 µF
40 x 105	120 mF	68 mF	33 mF	10 mF	3.9 mF	2.7 mF	1.5 mF	1.2 mF	820 µF	820 µF
45 x 105					5.6 mF	3.9 mF	2.2 mF	1.8 mF	1.2 mF	1 mF
50 x 105					6.8 mF	4.7 mF	2.7 mF	2.2 mF	1.5 mF	1.2 mF

Lifetime based on applying rated voltage, temperature and ripple current.

Aluminum Electrolytic Capacitors

Surface Mount

EDH Low Profile, High Voltage 105°C, 6.3 – 450 VDC

Capacitance Range: 1 to 2,200 µF • Temperature Range: -40°C to +105°C & -25°C to +105°C

Lifetime: 2,000 Hours

www.kemet.com/EDH



EDH	226	M	6R3		A	9B	AA
Series	Capacitance Code (pF)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Surface Mount Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = ±20%	6R3 = 6.3 010 = 10 016 = 16 025 = 25 035 = 35 050 = 50 063 = 63	100 = 100 160 = 160 200 = 200 250 = 250 400 = 400 450 = 450	A = Standard S = AEC-Q200	See Dimension Table	AA = Tape & Reel

Case Size	Voltage						
	6.3	10	16	25	35	50	63
4 x 5.4	22 µF – 47 µF	22 µF	10 µF – 22 µF	4.7 µF – 10 µF	4.7 µF – 6.8 µF	1 µF – 3.3 µF	
5 x 5.4	47 µF	33 µF – 47 µF	22 µF – 47 µF	10 µF – 22 µF	10 µF	4.7 µF – 10 µF	
6.3 x 5.4	100 µF – 220 µF	47 µF – 100 µF	47 µF – 100 µF	22 µF – 47 µF	22 µF	10 µF – 22 µF	
6.3 x 7.7	220 µF – 330 µF	100 µF – 220 µF	100 µF	47 µF – 100 µF	33 µF – 47 µF	22 µF – 47 µF	
8 x 10.2	330 µF – 470 µF	220 µF – 470 µF	220 µF – 470 µF	100 µF – 220 µF	47 µF – 220 µF	47 µF – 100 µF	33 µF – 47 µF
10 x 10.2	470 µF – 1.5 mF	470 µF – 1 mF	220 µF – 470 µF	220 µF – 470 µF	100 µF – 330 µF	100 µF – 220 µF	100 µF – 150 µF
12.5 x 13.5	2.2 mF	2.2 mF	1 mF	1 mF	470 µF – 680 µF	330 µF	220 µF
12.5 x 16				1.5 mF		470 µF	220 µF
16 x 16.5			2.2 mF	2.2 mF	1 mF – 1.5 mF	1 mF	330 µF – 470 µF

Case Size	Voltage					
	100	160	200	250	400	450
8 x 10.2	22 µF – 33 µF					
10 x 10.2	33 µF – 47 µF					
12.5 x 13.5	47 µF – 100 µF	33 µF	10 µF	3.3 µF – 22 µF	3.3 µF – 10 µF	3.3 µF – 4.7 µF
12.5 x 16			22 µF – 33 µF			10 µF
16 x 16.5		47 µF – 100 µF	47 µF	33 µF – 47 µF	22 µF – 33 µF	22 µF

Lifetime based on applying rated voltage, temperature and ripple current.

Radial/Single-Ended

ESK General Purpose 85°C, 6.3 – 500 VDC

Capacitance Range: 1 to 22,000 µF • **Temperature Range:** -40°C to +85°C & -25°C to +85°C

Lifetime: 2,000 Hours

www.kemet.com/ESK



ESK	226	M	6R3		A	C3	AA
Series	Capacitance Code (pF)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = ±20%	6R3 = 6.3 010 = 10 016 = 16 025 = 25 035 = 35 050 = 50 063 = 63	100 = 100 160 = 160 200 = 200 250 = 250 350 = 350 400 = 400 450 = 450 500 = 500	A = Standard	See Dimension Table	See Ordering Options Table

Case Size	Voltage							
	6.3	10	16	25	35	50	63	100
5 x 11	22 µF – 220 µF	4.7 µF – 220 µF	1 µF – 100 µF	4.7 µF – 68 µF	4.7 µF – 47 µF	1 µF – 33 µF	1 µF – 22 µF	1 µF – 10 µF
6.3 x 11	220 µF – 470 µF	220 µF – 470 µF	100 µF – 330 µF	100 µF	47 µF – 100 µF	33 µF – 47 µF	22 µF – 47 µF	10 µF – 22 µF
8 x 11	330 µF – 1 mF	330 µF – 680 µF	220 µF – 470 µF	220 µF – 330 µF	100 µF – 220 µF	47 µF – 100 µF	33 µF – 47 µF	22 µF – 33 µF
8 x 15		680 µF		330 µF – 470 µF				
10 x 12.5	1 mF	1 mF	680 µF	470 µF	330 µF	220 µF	100 µF	47 µF
10 x 15		680 µF – 1 mF	680 µF – 1 mF	330 µF – 680 µF	330 µF – 470 µF	220 µF – 330 µF	220 µF	47 µF – 68 µF
10 x 20	2.2 mF – 3.3 mF	2.2 mF	1 mF	1 mF	470 µF – 680 µF	330 µF – 470 µF	220 µF – 330 µF	100 µF
13 x 16				1 mF				
13 x 20	2.2 mF – 4.7 mF	2.2 mF – 3.3 mF	2.2 mF	1 mF	470 µF – 1 mF	470 µF	330 µF – 470 µF	150 µF
13 x 25	6.8 mF	3.3 mF – 4.7 mF	2.2 mF – 3.3 mF	2.2 mF	1 mF	1 mF	470 µF – 680 µF	220 µF – 330 µF
16 x 25	4.7 mF – 0.01 F	4.7 mF – 6.8 mF	3.3 mF – 4.7 mF	2.2 mF – 3.3 mF	2.2 mF	1 mF	1 mF	330 µF – 470 µF
16 x 32	10 mF	6.8 mF	4.7 mF – 6.8 mF	3.3 mF – 4.7 mF	2.2 mF		1 mF	
16 x 36	15 mF	10 mF	6.8 mF		3.3 mF	2.2 mF		680 µF
18 x 32		10 mF			3.3 mF	2.2 mF		
18 x 36	15 mF	10 mF – 0.015 F	6.8 mF – 0.01 F	4.7 mF – 6.8 mF	3.3 mF – 4.7 mF	2.2 mF – 3.3 mF	2.2 mF	
18 x 40	22 mF					3.3 mF	2.2 mF	1 mF
22 x 35						4.7 mF		
22 x 40		22 mF	15 mF – 0.022 F	10 mF – 0.015 F	6.8 mF	4.7 mF	3.3 mF	2.2 mF

Lifetime based on applying rated voltage, temperature and ripple current.

Aluminum Electrolytic Capacitors

Radial/Single-Ended (cont.)

ESK General Purpose 85°C, 6.3 – 500 VDC (cont.)

Capacitance Range: 1 to 22,000 µF • Temperature Range: -40°C to +85°C & -25°C to +85°C

Lifetime: 2,000 Hours

www.kemet.com/ESK



ESK	226	M	6R3		A	C3	AA
Series	Capacitance Code (pF)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = ±20%	6R3 = 6.3 010 = 10 016 = 16 025 = 25 035 = 35 050 = 50 063 = 63	100 = 100 160 = 160 200 = 200 250 = 250 350 = 350 400 = 400 450 = 450 500 = 500	A = Standard	See Dimension Table	See Ordering Options Table

Case Size	Voltage						
	160	200	250	350	400	450	500
5 x 11	1 µF	1 µF	1 µF				
6.3 x 11	1 µF – 4.7 µF	2.2 µF – 4.7 µF	1 µF – 2.2 µF	1 µF	1 µF – 2.2 µF		
8 x 11	3.3 µF – 10 µF	2.2 µF – 10 µF	2.2 µF – 6.8 µF	2.2 µF – 3.3 µF	1 µF – 4.7 µF	1 µF	
8 x 15					6.8 µF		
10 x 12.5			10 µF	4.7 µF	4.7 µF – 6.8 µF	2.2 µF – 4.7 µF	2.2 µF
10 x 15	22 µF – 33 µF	10 µF – 22 µF	10 µF	4.7 µF – 10 µF	4.7 µF – 10 µF	3.3 µF – 6.8 µF	3.3 µF
10 x 20	33 µF – 47 µF	33 µF – 47 µF	22 µF		10 µF	10 µF	6.8 µF
13 x 16							
13 x 20	47 µF – 68 µF	47 µF	33 µF	22 µF	10 µF – 22 µF	10 µF	10 µF
13 x 25	100 µF	47 µF	33 µF – 47 µF	33 µF	22 µF – 33 µF	10 µF – 22 µF	
16 x 25	100 µF – 150 µF	100 µF	100 µF	47 µF	22 µF – 47 µF	22 µF – 33 µF	22 µF – 33 µF
16 x 32	220 µF	220 µF	100 µF – 150 µF		47 µF – 68 µF	33 µF – 47 µF	
16 x 36	220 µF			100 µF		33 µF	
16 x 40		330 µF					
18 x 25		220 µF			68 µF	47 µF – 68 µF	
18 x 32		220 µF – 330 µF		100 µF	100 µF		47 µF
18 x 36	330 µF	220 µF – 330 µF		100 µF	100 µF	47 µF	68 µF
18 x 40	330 µF – 470 µF	330 µF – 470 µF	220 µF		150 µF	47 µF – 100 µF	
22 x 35						150 µF	
22 x 40	470 µF					100 µF	

Lifetime based on applying rated voltage, temperature and ripple current.

Radial/Single-Ended (cont.)

ESH High Reliability, High CV 105°C, 6.3 – 500 VDC

Capacitance Range: 1 to 22,000 µF • **Temperature Range:** -40°C to +105°C & -25°C to +105°C

Lifetime: 2,000 Hours

www.kemet.com/ESH



ESH	107	M	6R3		A	C3	AA
Series	Capacitance Code (pF)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = ±20%	6R3 = 6.3 010 = 10 016 = 16 025 = 25 035 = 35 050 = 50 063 = 63 100 = 100	160 = 160 200 = 200 250 = 250 350 = 350 400 = 400 420 = 420 450 = 450 500 = 500	A = Standard	See Dimension Table	See Ordering Options Table

Case Size	Voltage						
	6.3	10	16	25	35	50	63
5 x 11	100 µF – 150 µF	47 µF – 150 µF	33 µF – 100 µF	22 µF – 47 µF	10 µF – 47 µF	1 µF – 33 µF	1 µF – 15 µF
6.3 x 11	220 µF – 470 µF	150 µF – 470 µF	100 µF – 220 µF	68 µF – 100 µF	47 µF – 100 µF	33 µF – 47 µF	22 µF – 33 µF
8 x 11	330 µF – 680 µF	330 µF – 680 µF	150 µF – 470 µF	150 µF – 330 µF	68 µF – 150 µF	47 µF – 100 µF	33 µF – 47 µF
8 x 15	1 mF	1 mF	680 µF	470 µF			
10 x 12	680 µF – 1 mF	680 µF	330 µF – 470 µF	220 µF – 470 µF	150 µF – 220 µF	100 µF – 150 µF	68 µF – 100 µF
10 x 12.5	1 mF	680 µF – 1 mF	680 µF	330 µF – 470 µF	220 µF – 330 µF	150 µF – 220 µF	68 µF – 100 µF
10 x 15	1.5 mF	1 mF	680 µF – 1 mF	470 µF – 680 µF	330 µF – 470 µF	220 µF	150 µF
10 x 20	2.2 mF	1.5 mF – 2.2 mF	1 mF – 1.5 mF	680 µF – 1 mF	470 µF – 680 µF	330 µF – 470 µF	220 µF
13 x 20	2.2 mF – 4.7 mF	2.2 mF – 3.3 mF	1.5 mF – 2.2 mF	1 mF – 1.5 mF	470 µF – 1 mF	470 µF – 680 µF	330 µF – 470 µF
13 x 25		3.3 mF – 4.7 mF	2.2 mF – 3.3 mF	1.5 mF – 2.2 mF	1 mF – 1.5 mF	680 µF – 1 mF	470 µF
16 x 25	4.7 mF – 6.8 mF	4.7 mF – 6.8 mF	3.3 mF – 4.7 mF	2.2 mF – 3.3 mF	1.5 mF – 2.2 mF	1 mF – 1.5 mF	680 µF
16 x 32	10 mF	6.8 mF	4.7 mF – 6.8 mF	3.3 mF – 4.7 mF	2.2 mF	1.5 mF	1 mF
16 x 36	15 mF	10 mF			3.3 mF	2.2 mF	1.5 mF
18 x 36		10 mF – 0.015 F	6.8 mF – 0.01 F	4.7 mF – 6.8 mF	3.3 mF – 4.7 mF	2.2 mF – 3.3 mF	2.2 mF
18 x 40	22 mF						

Lifetime based on applying rated voltage, temperature and ripple current.

Aluminum Electrolytic Capacitors

Radial/Single-Ended (cont.)

ESH High Reliability, High CV 105°C, 6.3 – 500 VDC (cont.)

Capacitance Range: 1 to 22,000 µF • **Temperature Range:** -40°C to +105°C & -25°C to +105°C

Lifetime: 2,000 Hours

www.kemet.com/ESH



ESH	107	M	6R3		A	C3	AA
Series	Capacitance Code (pF)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = ±20%	6R3 = 6.3 010 = 10 016 = 16 025 = 25 035 = 35 050 = 50 063 = 63 100 = 100	160 = 160 200 = 200 250 = 250 350 = 350 400 = 400 420 = 420 450 = 450 500 = 500	A = Standard	See Dimension Table	See Ordering Options Table

Case Size	Voltage								
	100	160	200	250	350	400	420	450	500
5 x 11	1 µF – 6.8 µF	1 µF							
6.3 x 11	10 µF – 15 µF	2.2 µF – 4.7 µF	1 µF – 3.3 µF	1 µF – 2.2 µF	1 µF	1 µF	1 µF	1 µF	
8 x 11	15 µF – 33 µF	3.3 µF – 10 µF	3.3 µF – 6.8 µF	2.2 µF – 6.8 µF	1 µF – 4.7 µF	1 µF – 4.7 µF	2.2 µF – 3.3 µF	1 µF – 2.2 µF	2.2 µF
8 x 15						6.8 µF		3.3 µF	
8 x 16									3.3 µF – 4.7 µF
10 x 12	33 µF	6.8 µF – 10 µF	4.7 µF – 6.8 µF	3.3 µF – 6.8 µF	2.2 µF	2.2 µF – 3.3 µF		2.2 µF	
10 x 12.5	47 µF	15 µF	10 µF	10 µF		4.7 µF – 6.8 µF	4.7 µF	2.2 µF – 4.7 µF	4.7 µF
10 x 15	47 µF – 68 µF	15 µF – 22 µF	10 µF – 15 µF	10 µF – 15 µF	3.3 µF – 10 µF	3.3 µF – 10 µF	6.8 µF	3.3 µF – 6.8 µF	
10 x 16									6.8 µF
10 x 20	68 µF – 100 µF	22 µF – 47 µF	15 µF – 22 µF	10 µF – 22 µF	6.8 µF	6.8 µF – 15 µF	10 µF	10 µF	8.2 µF – 10 µF
13 x 20	100 µF – 150 µF	33 µF – 68 µF	33 µF – 47 µF	15 µF – 33 µF	10 µF – 22 µF	10 µF – 22 µF	15 µF	6.8 µF – 15 µF	10 µF
13 x 25	150 µF – 220 µF	47 µF – 100 µF	33 µF – 68 µF	22 µF – 68 µF	33 µF	15 µF – 33 µF	22 µF	10 µF – 22 µF	15 µF – 22 µF
16 x 25	220 µF – 330 µF	100 µF – 150 µF	68 µF – 100 µF	47 µF – 100 µF	22 µF – 47 µF	22 µF – 47 µF	33 µF – 47 µF	15 µF – 47 µF	22 µF
16 x 32	470 µF	150 µF – 220 µF	100 µF – 150 µF	68 µF – 150 µF	33 µF	33 µF – 68 µF	68 µF	22 µF	47 µF
16 x 36	680 µF	220 µF	150 µF – 220 µF		47 µF				
18 x 25						68 µF	68 µF		33 µF
18 x 30									47 µF
18 x 32			220 µF		100 µF	100 µF – 120 µF		68 µF	68 µF
18 x 36		330 µF	220 µF – 330 µF	100 µF – 220 µF	47 µF – 68 µF	47 µF – 120 µF	100 µF	33 µF – 100 µF	68 µF
18 x 40		330 µF – 470 µF	220 µF – 330 µF	150 µF	100 µF	150 µF	120 µF	47 µF – 120 µF	82 µF
18 x 45							150 µF	150 µF	
22 x 40		470 µF	330 µF	220 µF	100 µF – 150 µF	100 µF – 150 µF		68 µF	

Lifetime based on applying rated voltage, temperature and ripple current.

Radial/Single-Ended (cont.)

ESG Long Life & High Reliability 105°C, 160 – 500 VDC

Capacitance Range: 3.3 to 330 µF • **Temperature Range:** -40°C to +105°C & -25°C to +105°C

Lifetime: 5,000 Hours

www.kemet.com/ESG



ESG	226	M	160		A	H4	AA
Series	Capacitance Code (pF)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = ±20%	160 = 160 200 = 200 250 = 250 350 = 350	400 = 400 450 = 450 500 = 500	A = Standard	See Dimension Table	See Ordering Options Table

Case Size	Voltage						
	160	200	250	350	400	450	500
10 x 12		10 µF			1.5 µF – 3.3 µF		
10 x 15					4.7 µF		
10 x 16		10 µF – 15 µF	10 µF		4.7 µF – 10 µF		
10 x 20	22 µF – 33 µF	22 µF – 33 µF	10 µF	10 µF	6.8 µF – 10 µF	3.3 µF – 6.8 µF	4.7 µF
10 x 25			10 µF				
13 x 20	47 µF	33 µF – 47 µF	22 µF – 33 µF	22 µF	22 µF	4.7 µF – 22 µF	6.8 µF
13 x 25	68 µF	68 µF	47 µF	33 µF	22 µF	10 µF	10 µF
16 x 20	68 µF	68 µF	47 µF	33 µF	22 µF		
16 x 25	100 µF	100 µF	68 µF	47 µF	33 µF – 47 µF	22 µF – 33 µF	22 µF
16 x 26						47 µF	
16 x 30					68 µF		
16 x 32	150 µF – 220 µF		100 µF	68 µF	47 µF – 68 µF	33 µF	33 µF
16 x 36							47 µF
18 x 20	100 µF	100 µF	68 µF	47 µF	33 µF	22 µF	22 µF
18 x 25	150 µF – 220 µF	150 µF	100 µF	68 µF	47 µF	33 µF – 68 µF	33 µF
18 x 32	330 µF	220 µF	150 µF	100 µF	100 µF	47 µF – 68 µF	47 µF – 68 µF
18 x 36					68 µF		68 µF
18 x 40			220 µF		100 µF – 150 µF	68 µF	82 µF
22 x 35							82 µF – 100 µF
22 x 40					150 µF	100 µF	120 µF
22 x 45							150 µF

Lifetime based on applying rated voltage, temperature and ripple current.

Ceramic Capacitors

Commercial Grade

High Voltage, C0G Dielectric, 500 – 3,000 VDC

Capacitance Range: 1 pF to 15 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/HV-C0G



C	1210	C	332	J	C	G	A	C	TU
Ceramic	Case Size (L" x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance ¹	Rated Voltage (VDC)	Dielectric	Failure Rate/ Design	Termination Finish ²	Packaging/ Grade (C-Spec)
	0603 0805 1206 1210 1808 1812 1825 2220 2225 2824 3040 3640 4540	C = Standard	Two significant digits and number of zeros.	B = ± 0.10 pF C = ± 0.25 pF D = ± 0.5 pF F = $\pm 1\%$ G = $\pm 2\%$ J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	C = 500 B = 630 D = 1,000 F = 1,500 G = 2,000 Z = 2,500 H = 3,000	G = C0G	A = N/A	C = 100% Matte Sn L = SnPb (5% Pb minimum)	See "Packaging C-Spec Ordering Options Table" below

Case Size	Voltage						
	500	630	1,000	1,500	2,000	2,500	3,000
0603	100 pF – 680 pF	100 pF – 680 pF	100 pF – 220 pF				
0805	1 pF – 2.7 nF	1 pF – 2.7 nF	1 pF – 820 pF				
1206	10 pF – 0.01 μ F	10 pF – 0.01 μ F	10 pF – 2.7 nF	10 pF – 560 pF	10 pF – 270 pF		
1210	10 pF – 0.022 μ F	10 pF – 0.022 μ F	10 pF – 6.8 nF	10 pF – 1.2 nF	10 pF – 680 pF		
1808	1 pF – 0.018 μ F	1 pF – 0.018 μ F	1 pF – 6.8 nF	1 pF – 1.5 nF	1 pF – 680 pF	1 pF – 390 pF	1 pF – 180 pF
1812	10 pF – 0.033 μ F	10 pF – 0.033 μ F	10 pF – 0.01 μ F	10 pF – 2.7 nF	10 pF – 1.5 nF	10 pF – 680 pF	10 pF – 390 pF
1825	10 pF – 0.033 μ F	10 pF – 0.018 μ F	10 pF – 0.01 μ F	10 pF – 5.6 nF	10 pF – 3 nF	10 pF – 1.6 nF	10 pF – 680 pF
2220	10 pF – 0.033 μ F	10 pF – 0.027 μ F	10 pF – 0.012 μ F	10 pF – 6.8 nF	10 pF – 3.9 nF	10 pF – 1.8 nF	10 pF – 1 nF
2225	10 pF – 0.039 μ F	10 pF – 0.027 μ F	10 pF – 0.015 μ F	10 pF – 6.8 nF	10 pF – 3.9 nF	10 pF – 2.2 nF	10 pF – 1 nF
2824	2.2 nF – 0.056 μ F	2.2 nF – 0.039 μ F	2.2 nF – 0.022 μ F	2.2 nF – 8.2 nF	2.2 nF – 5.6 nF		
3040	3.3 nF – 0.1 μ F	3.3 nF – 0.068 μ F	3.3 nF – 0.039 μ F	3.3 nF – 0.015 μ F	3.3 nF – 0.01 μ F		
3640	3.9 nF – 0.12 μ F	3.9 nF – 0.068 μ F	3.9 nF – 0.047 μ F	3.9 nF – 0.018 μ F	3.9 nF – 0.015 μ F		
4540	4.7 nF – 0.15 μ F	4.7 nF – 0.1 μ F	4.7 nF – 0.068 μ F	4.7 nF – 0.027 μ F	4.7 nF – 0.018 μ F		

Commercial Grade (cont.)

High Voltage with Flexible Termination System (HV FT-CAP), C0G Dielectric, 500 – 3,000 VDC

Capacitance Range: 1 pF to 0.039 µF • Temperature Range: -55°C to +125°C

www.kemet.com/FTCAP-HV-C0G



C	2225	X	393	J	C	G	A	C	TU
Ceramic	Case Size (L" x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance ¹	Rated Voltage (VDC)	Dielectric	Failure Rate/ Design	Termination Finish ²	Packaging/Grade (C-Spec)
	0603 0805 1206 1210 1808 1812 1825 2220 2225	X = Flexible Termination	Two significant digits and number of zeros.	B = ±0.10 pF C = ±0.25 pF D = ±0.5 pF F = ±1% G = ±2% J = ±5% K = ±10% M = ±20%	C = 500 B = 630 D = 1,000 F = 1,500 G = 2,000 Z = 2,500 H = 3,000	G = C0G	A = N/A	C = 100% Matte Sn L = SnPb (5% Pb minimum)	See "Packaging C-Spec Ordering Options Table"

Case Size	Voltage						
	500	630	1,000	1,500	2,000	2,500	3,000
0603	100 pF – 680 pF	100 pF – 680 pF	100 pF – 220 pF				
0805	1 pF – 2.7 nF	1 pF – 2.7 nF	1 pF – 820 pF				
1206	10 pF – 0.01 µF	10 pF – 0.01 µF	10 pF – 2.7 nF	10 pF – 560 pF	10 pF – 270 pF		
1210	10 pF – 0.022 µF	10 pF – 0.022 µF	10 pF – 6.8 nF	10 pF – 1.2 nF	10 pF – 680 pF		
1808	1 pF – 0.018 µF	1 pF – 0.018 µF	1 pF – 6.8 nF	1 pF – 1.5 nF	1 pF – 680 pF	1 pF – 390 pF	1 pF – 180 pF
1812	10 pF – 0.033 µF	10 pF – 0.033 µF	10 pF – 0.01 µF	10 pF – 2.7 nF	10 pF – 1.5 nF	10 pF – 680 pF	10 pF – 390 pF
1825	9.1 nF – 0.033 µF	5.1 nF – 0.018 µF	5.1 nF – 0.01 µF	2 nF – 5.6 nF	1.3 nF – 3 nF	1.1 nF – 1.6 nF	430 pF – 680 pF
2220	10 pF – 0.033 µF	10 pF – 0.027 µF	10 pF – 0.012 µF	10 pF – 6.8 nF	10 pF – 3.9 nF	10 pF – 1.8 nF	10 pF – 1 nF
2225	10 pF – 0.039 µF	10 pF – 0.027 µF	10 pF – 0.015 µF	10 pF – 6.8 nF	10 pF – 3.9 nF	10 pF – 2.2 nF	10 pF – 1 nF

Commercial Grade (cont.)

High Voltage, X7R Dielectric, 500 – 3,000 VDC

Capacitance Range: 10 pF to 0.56 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/HV-X7R



C	1210	C	154	K	C	R	A	C	AUTO
Ceramic	Case Size (L" x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Dielectric	Failure Rate/ Design	Termination Finish¹	Packaging/Grade (C-Spec)
	0603 0805 1206 1210 1808 1812 1825 2220 2225	C = Standard	Two significant digits and number of zeros.	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	C = 500 B = 630 D = 1,000 F = 1,500 G = 2,000 Z = 2,500 H = 3,000	R = X7R	A = N/A	C = 100% Matte Sn	See "Packaging C-Spec Ordering Options Table"

Case Size	Voltage						
	500	630	1,000	1,500	2,000	2,500	3,000
0603	1 nF – 3.9 nF	1 nF – 1.5 nF	1 nF				
0805	10 pF – 0.022 μ F	10 pF – 0.012 μ F	10 pF – 5.6 nF				
1206	10 pF – 0.068 μ F	10 pF – 0.033 μ F	10 pF – 0.022 μ F	10 pF – 0.01 μ F	10 pF – 2.2 nF		
1210	10 pF – 0.15 μ F	10 pF – 0.1 μ F	10 pF – 0.068 μ F	10 pF – 0.039 μ F	10 pF – 6.8 nF		
1808	10 pF – 0.15 μ F	10 pF – 0.1 μ F	10 pF – 0.068 μ F	10 pF – 0.015 μ F	10 pF – 4.7 nF	10 pF – 2.2 nF	10 pF – 1 nF
1812	10 pF – 0.33 μ F	10 pF – 0.15 μ F	10 pF – 0.1 μ F	10 pF – 0.033 μ F	10 pF – 0.01 μ F	10 pF – 4.7 nF	10 pF – 1.2 nF
1825	100 pF – 0.39 μ F	100 pF – 0.27 μ F	100 pF – 0.1 μ F	100 pF – 0.068 μ F	100 pF – 0.015 μ F	100 pF – 0.01 μ F	100 pF – 2.2 nF
2220	100 pF – 0.47 μ F	100 pF – 0.33 μ F	100 pF – 0.12 μ F	100 pF – 0.082 μ F	100 pF – 0.022 μ F	100 pF – 0.015 μ F	100 pF – 0.015 μ F
2225	100 pF – 0.56 μ F	100 pF – 0.47 μ F	100 pF – 0.15 μ F	100 pF – 0.1 μ F	100 pF – 0.027 μ F	100 pF – 0.015 μ F	100 pF – 0.015 μ F

Commercial Grade (cont.)

High Voltage with Flexible Termination System (HV FT-CAP), X7R Dielectric, 500 – 3,000 VDC

Capacitance Range: 10 pF to 0.56 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/FTCAP-HV-X7R



C	1210	X	154	K	C	R	A	C	AUTO
Ceramic	Case Size (L" x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Dielectric	Failure Rate/ Design	Termination Finish¹	Packaging/Grade (C-Spec)
	0603 0805 1206 1210 1808 1812 1825 2220 2225	X = Flexible termination	Two significant digits and number of zeros.	J = $\pm$ 5% K = $\pm$ 10% M = $\pm$ 20%	C = 500 B = 630 D = 1,000 F = 1,500 G = 2,000 Z = 2,500 H = 3,000	R = X7R	A = N/A	C = 100% Matte Sn	See "Packaging C-Spec Ordering Options Table"

Case Size	Voltage						
	500	630	1,000	1,500	2,000	2,500	3,000
0603	1 nF – 3.9 nF	1 nF – 1.5 nF	1 nF				
0805	10 pF – 0.022 μ F	10 pF – 0.012 μ F	10 pF – 5.6 nF				
1206	10 pF – 0.068 μ F	10 pF – 0.033 μ F	10 pF – 0.022 μ F	10 pF – 0.01 μ F	10 pF – 2.2 nF		
1210	10 pF – 0.15 μ F	10 pF – 0.1 μ F	10 pF – 0.068 μ F	10 pF – 0.039 μ F	10 pF – 6.8 nF		
1808	10 pF – 0.15 μ F	10 pF – 0.1 μ F	10 pF – 0.068 μ F	10 pF – 0.015 μ F	10 pF – 4.7 nF	10 pF – 2.2 nF	10 pF – 1 nF
1812	51 pF – 0.33 μ F	51 pF – 0.15 μ F	51 pF – 0.1 μ F	51 pF – 0.033 μ F	51 pF – 0.01 μ F	51 pF – 4.7 nF	51 pF – 1.2 nF
1825	470 pF – 0.39 μ F	470 pF – 0.27 μ F	470 pF – 0.1 μ F	470 pF – 0.068 μ F	470 pF – 0.015 μ F	470 pF – 0.01 μ F	470 pF – 3.3 nF
2220	470 pF – 0.47 μ F	470 pF – 0.33 μ F	470 pF – 0.12 μ F	470 pF – 0.082 μ F	470 pF – 0.022 μ F	470 pF – 0.015 μ F	470 pF – 0.015 μ F
2225	680 pF – 0.56 μ F	680 pF – 0.47 μ F	680 pF – 0.15 μ F	680 pF – 0.1 μ F	680 pF – 0.027 μ F	680 pF – 0.015 μ F	680 pF – 0.015 μ F

Commercial Grade (cont.)

ArcShield™ Technology, High Voltage, X7R Dielectric, 500 – 1,000 VDC

Capacitance Range: 1,000 pF to 0.56 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/ArcShield-X7R



C	0603	W	392	K	C	R	A	C	TU
Ceramic	Case Size (L" x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Dielectric	Failure Rate/ Design	Termination Finish ¹	Packaging/ Grade (C-Spec) ²
	0603 0805 1206 1210 1808 1812 1825 2220 2225	V = ArcShield W = ArcShield with flexible termination	Two significant digits and number of zeros.	J = $\pm$ 5% K = $\pm$ 10% M = $\pm$ 20%	C = 500 B = 630 D = 1,000	R = X7R	A = N/A	C = 100% Matte Sn L = SnPb (5% PB minimum)	See "Packaging C-Spec Ordering Options Table"

Case Size	Voltage		
	500	630	1,000
0603	1 nF – 3.9 nF	1 nF – 1.5 nF	1 nF
0805	2.2 nF – 0.022 μ F	2.2 nF – 0.012 μ F	2.2 nF – 4.7 nF
1206	0.012 μ F – 0.068 μ F	0.012 μ F – 0.033 μ F	0.012 μ F – 0.022 μ F
1210	0.022 μ F – 0.15 μ F	0.022 μ F – 0.1 μ F	0.022 μ F – 0.068 μ F
1808	0.018 μ F – 0.15 μ F	0.018 μ F – 0.1 μ F	0.018 μ F – 0.068 μ F
1812	0.027 μ F – 0.33 μ F	0.027 μ F – 0.15 μ F	0.027 μ F – 0.1 μ F
1825	0.12 μ F – 0.39 μ F	0.12 μ F – 0.27 μ F	
2220	0.15 μ F – 0.47 μ F	0.15 μ F – 0.33 μ F	
2225	0.18 μ F – 0.56 μ F	0.18 μ F – 0.47 μ F	

Commercial Grade (cont.)

KPS High Voltage, X7R Dielectric, 500 & 630 VDC

Capacitance Range: 0.047 to 1 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/KPS-HV-X7R



C	2220	C	105	M	C	R	2	C	7186
Ceramic	Case Size (L" x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance ¹	Rated Voltage (VDC)	Dielectric	Failure Rate/ Design	Leadframe Finish ²	Packaging/ Grade (C-Spec)
	2220	C = Standard	Two significant digits and number of zeros.	K = $\pm 10\%$ M = $\pm 20\%$	C = 500 B = 630	R = X7R	1 = KPS single chip stack 2 = KPS double chip stack	C = 100% Matte Sn	See "Packaging C-Spec Ordering Options Table"

Case Size	Voltage	
	500	630
2220-1	0.047 μ F – 0.47 μ F	0.047 μ F – 0.22 μ F
2220-2	0.1 μ F – 1 μ F	0.1 μ F – 0.47 μ F

KPS "L" High Voltage, SnPb Termination, X7R Dielectric, 500 – 630 VDC

Capacitance Range: 0.047 to 1 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/KPS-L-HV



C	2220	C	105	M	C	R	2	L	7186
Ceramic	Case Size (L" x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance ¹	Rated Voltage (VDC)	Dielectric	Failure Rate/ Design	Leadframe Finish ²	Packaging/ Grade (C-Spec) ³
	2220	C = Standard	Two Significant Digits and Number of Zeroes	K = $\pm 10\%$ M = $\pm 20\%$	C = 500 B = 630	R = X7R	1 = KPS single chip stack 2 = KPS double chip stack	L = SnPb (5% Pb minimum)	See "Packaging C-Spec Ordering Options Table"

Case Size	Voltage	
	500	630
2220-1	0.047 μ F – 0.47 μ F	0.047 μ F – 0.22 μ F
2220-2	0.1 μ F – 1 μ F	0.1 μ F – 0.47 μ F

Automotive Grade

High Voltage, COG Dielectric, 500 – 3,000 VDC

Capacitance Range: 1 pF to 0.15 µF • Temperature Range: -55°C to +125°C

www.kemet.com/COG-HV-Auto



C	1210	C	332	J	C	G	A	C	AUTO
Ceramic	Case Size (L" x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance ¹	Rated Voltage (VDC)	Dielectric	Failure Rate/ Design	Termination Finish ²	Packaging/Grade (C-Spec)
	0603 0805 1206 1210 1808 1812 1825 2220 2225 2824 3040 3640 4540	C = Standard	Two significant digits and number of zeros.	B = ±0.10 pF C = ±0.25 pF D = ±0.5 pF F = ±1% G = ±2% J = ±5% K = ±10% M = ±20%	C = 500 B = 630 D = 1,000 F = 1,500 G = 2,000 Z = 2,500 H = 3,000	G = COG	A = N/A	C = 100% Matte Sn	See "Packaging C-Spec Ordering Options Table"

Case Size	Voltage						
	500	630	1,000	1,500	2,000	2,500	3,000
0603	100 pF – 680 pF	100 pF – 680 pF	100 pF – 220 pF				
0805	1 pF – 2.7 nF	1 pF – 2.7 nF	1 pF – 820 pF				
1206	10 pF – 0.01 µF	10 pF – 0.01 µF	10 pF – 2.7 nF	10 pF – 560 pF	10 pF – 270 pF		
1210	10 pF – 0.022 µF	10 pF – 0.022 µF	10 pF – 6.8 nF	10 pF – 1.2 nF	10 pF – 680 pF		
1808	1 pF – 0.018 µF	1 pF – 0.018 µF	1 pF – 6.8 nF	1 pF – 1.5 nF	1 pF – 680 pF	1 pF – 390 pF	1 pF – 180 pF
1812	10 pF – 0.033 µF	10 pF – 0.033 µF	10 pF – 0.01 µF	10 pF – 2.7 nF	10 pF – 1.5 nF	10 pF – 680 pF	10 pF – 390 pF
1825	10 pF – 0.033 µF	10 pF – 0.018 µF	10 pF – 0.01 µF	10 pF – 5.6 nF	10 pF – 3 nF	10 pF – 1.6 nF	10 pF – 680 pF
2220	10 pF – 0.033 µF	10 pF – 0.027 µF	10 pF – 0.012 µF	10 pF – 6.8 nF	10 pF – 3.9 nF	10 pF – 1.8 nF	10 pF – 1 nF
2225	10 pF – 0.039 µF	10 pF – 0.027 µF	10 pF – 0.015 µF	10 pF – 6.8 nF	10 pF – 3.9 nF	10 pF – 2.2 nF	10 pF – 1 nF
2824	2.2 nF – 0.056 µF	2.2 nF – 0.039 µF	2.2 nF – 0.022 µF	2.2 nF – 8.2 nF	2.2 nF – 5.6 nF		
3040	3.3 nF – 0.1 µF	3.3 nF – 0.068 µF	3.3 nF – 0.039 µF	3.3 nF – 0.015 µF	3.3 nF – 0.01 µF		
3640	3.9 nF – 0.12 µF	3.9 nF – 0.068 µF	3.9 nF – 0.047 µF	3.9 nF – 0.018 µF	3.9 nF – 0.015 µF		
4540	4.7 nF – 0.15 µF	4.7 nF – 0.1 µF	4.7 nF – 0.068 µF	4.7 nF – 0.027 µF	4.7 nF – 0.018 µF		

Automotive Grade (cont.)

High Voltage with Flexible Termination System (HV FT-CAP), COG Dielectric, 500 – 3,000 VDC

Capacitance Range: 1 pF to 0.039 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/FTCAP-COG-HV-Auto



C	2225	X	393	J	C	G	A	C	AUTO
Ceramic	Case Size (L" x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance ¹	Rated Voltage (VDC)	Dielectric	Failure Rate/ Design	Termination Finish ²	Packaging/Grade (C-Spec)
	0603 0805 1206 1210 1808 1812 1825 2220 2225	X = Flexible termination	Two significant digits and number of zeros.	B = ± 0.10 pF C = ± 0.25 pF D = ± 0.5 pF F = $\pm 1\%$ G = $\pm 2\%$ J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	C = 500 B = 630 D = 1,000 F = 1,500 G = 2,000 Z = 2,500 H = 3,000	G = COG	A = N/A	C = 100% Matte Sn	See "Packaging C-Spec Ordering Options Table"

Case Size	Voltage						
	500	630	1,000	1,500	2,000	2,500	3,000
0603	100 pF – 680 pF	100 pF – 680 pF	100 pF – 220 pF				
0805	1 pF – 2.7 nF	1 pF – 2.7 nF	1 pF – 820 pF				
1206	10 pF – 0.01 μ F	10 pF – 0.01 μ F	10 pF – 2.7 nF	10 pF – 560 pF	10 pF – 270 pF		
1210	10 pF – 0.022 μ F	10 pF – 0.022 μ F	10 pF – 6.8 nF	10 pF – 1.2 nF	10 pF – 680 pF		
1808	1 pF – 0.018 μ F	1 pF – 0.018 μ F	1 pF – 6.8 nF	1 pF – 1.5 nF	1 pF – 680 pF	1 pF – 390 pF	1 pF – 180 pF
1812	10 pF – 0.033 μ F	10 pF – 0.033 μ F	10 pF – 0.01 μ F	10 pF – 2.7 nF	10 pF – 1.5 nF	10 pF – 680 pF	10 pF – 390 pF
1825	430 pF – 0.033 μ F	430 pF – 0.018 μ F	430 pF – 0.01 μ F	430 pF – 5.6 nF	430 pF – 3 nF	430 pF – 1.6 nF	430 pF – 680 pF
2220	10 pF – 0.033 μ F	10 pF – 0.027 μ F	10 pF – 0.012 μ F	10 pF – 6.8 nF	10 pF – 3.9 nF	10 pF – 1.8 nF	10 pF – 1 nF
2225	10 pF – 0.039 μ F	10 pF – 0.027 μ F	10 pF – 0.015 μ F	10 pF – 6.8 nF	10 pF – 3.9 nF	10 pF – 2.2 nF	10 pF – 1 nF

Automotive Grade (cont.)

High Voltage, X7R Dielectric, 500 – 3,000 VDC

Capacitance Range: 10 pF to 0.56 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/X7R-HV-Auto



C	1210	C	154	K	C	R	A	C	AUTO
Ceramic	Case Size (L" x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Dielectric	Failure Rate/ Design	Termination Finish¹	Packaging/Grade (C-Spec)
	0603 0805 1206 1210 1808 1812 1825 2220 2225	C = Standard	Two significant digits and number of zeros.	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	C = 500 B = 630 D = 1,000 F = 1,500 G = 2,000 Z = 2,500 H = 3,000	R = X7R	A = N/A	C = 100% Matte Sn	See "Packaging C-Spec Ordering Options Table"

Case Size	Voltage						
	500	630	1,000	1,500	2,000	2,500	3,000
0603	20 pF – 3.9 nF	20 pF – 1.5 nF	20 pF – 1 nF				
0805	10 pF – 0.022 μ F	10 pF – 0.012 μ F	10 pF – 4.7 nF				
1206	10 pF – 0.068 μ F	10 pF – 0.033 μ F	10 pF – 0.022 μ F	10 pF – 0.01 μ F	10 pF – 2.2 nF		
1210	10 pF – 0.15 μ F	10 pF – 0.1 μ F	10 pF – 0.068 μ F	10 pF – 0.039 μ F	10 pF – 6.8 nF		
1808	10 pF – 0.15 μ F	10 pF – 0.1 μ F	10 pF – 0.068 μ F	10 pF – 0.015 μ F	10 pF – 4.7 nF	10 pF – 2.2 nF	10 pF – 1 nF
1812	10 pF – 0.33 μ F	10 pF – 0.15 μ F	10 pF – 0.1 μ F	10 pF – 0.033 μ F	10 pF – 0.01 μ F	10 pF – 4.7 nF	10 pF – 1.2 nF
1825	100 pF – 0.39 μ F	100 pF – 0.27 μ F	100 pF – 0.1 μ F	100 pF – 0.068 μ F	100 pF – 0.015 μ F	100 pF – 0.01 μ F	100 pF – 2.2 nF
2220	100 pF – 0.47 μ F	100 pF – 0.33 μ F	100 pF – 0.12 μ F	100 pF – 0.082 μ F	100 pF – 0.022 μ F	100 pF – 0.015 μ F	100 pF – 0.015 μ F
2225	100 pF – 0.56 μ F	100 pF – 0.47 μ F	100 pF – 0.15 μ F	100 pF – 0.1 μ F	100 pF – 0.027 μ F	100 pF – 0.015 μ F	100 pF – 0.015 μ F

Automotive Grade (cont.)

High Voltage with Flexible Termination System (HV FT-CAP), X7R Dielectric, 500 – 3,000 VDC

Capacitance Range: 10 pF to 0.56 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/FTCAP-X7R-HV-Auto



C	1210	X	154	K	C	R	A	C	AUTO
Ceramic	Case Size (L" x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Dielectric	Failure Rate/ Design	Termination Finish ¹	Packaging/Grade (C-Spec)
	0603 0805 1206 1210 1808 1812 1825 2220 2225	X = Flexible termination	Two significant digits and number of zeros.	J = $\pm$ 5% K = $\pm$ 10% M = $\pm$ 20%	C = 500 B = 630 D = 1,000 F = 1,500 G = 2,000 Z = 2,500 H = 3,000	R = X7R	A = N/A	C = 100% Matte Sn	See "Packaging C-Spec Ordering Options Table"

Case Size	Voltage						
	500	630	1,000	1,500	2,000	2,500	3,000
0603	1 nF – 3.9 nF	1 nF – 1.5 nF	1 nF				
0805	10 pF – 0.022 μ F	10 pF – 0.012 μ F	10 pF – 4.7 nF				
1206	10 pF – 0.068 μ F	10 pF – 0.033 μ F	10 pF – 0.022 μ F	10 pF – 0.01 μ F	10 pF – 2.2 nF		
1210	10 pF – 0.15 μ F	10 pF – 0.1 μ F	10 pF – 0.068 μ F	10 pF – 0.039 μ F	10 pF – 6.8 nF		
1808	10 pF – 0.15 μ F	10 pF – 0.1 μ F	10 pF – 0.068 μ F	10 pF – 0.015 μ F	10 pF – 4.7 nF	10 pF – 2.2 nF	10 pF – 1 nF
1812	51 pF – 0.33 μ F	51 pF – 0.15 μ F	51 pF – 0.1 μ F	51 pF – 0.033 μ F	51 pF – 0.01 μ F	51 pF – 4.7 nF	51 pF – 1.2 nF
1825	470 pF – 0.39 μ F	470 pF – 0.27 μ F	470 pF – 0.1 μ F	470 pF – 0.068 μ F	470 pF – 0.015 μ F	470 pF – 0.01 μ F	470 pF – 3.3 nF
2220	470 pF – 0.47 μ F	470 pF – 0.33 μ F	470 pF – 0.12 μ F	470 pF – 0.082 μ F	470 pF – 0.022 μ F	470 pF – 0.015 μ F	470 pF – 0.015 μ F
2225	680 pF – 0.56 μ F	680 pF – 0.47 μ F	680 pF – 0.15 μ F	680 pF – 0.1 μ F	680 pF – 0.027 μ F	680 pF – 0.015 μ F	680 pF – 0.015 μ F

Automotive Grade (cont.)

ArcShield™ Technology, X7R Dielectric, 500 – 1,000 VDC

Capacitance Range: 1,000 pF to 0.56 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/ArcShield-X7R



C	0603	W	392	K	C	R	A	C	TU
Ceramic	Case Size (L" x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Dielectric	Failure Rate/ Design	Termination Finish ¹	Packaging/ Grade (C-Spec) ²
	0603 0805 1206 1210 1808 1812 1825 2220 2225	V = ArcShield W = ArcShield with flexible termination	Two significant digits and number of zeros.	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	C = 500 B = 630 D = 1,000	R = X7R	A = N/A	C = 100% Matte Sn L = SnPb (5% PB minimum)	See "Packaging C-Spec Ordering Options Table"

Case Size	Voltage		
	500	630	1,000
0603	1 nF – 3.9 nF	1 nF – 1.5 nF	1 nF
0805	2.2 nF – 0.022 μ F	2.2 nF – 0.012 μ F	2.2 nF – 4.7 nF
1206	0.012 μ F – 0.068 μ F	0.012 μ F – 0.033 μ F	0.012 μ F – 0.022 μ F
1210	0.022 μ F – 0.15 μ F	0.022 μ F – 0.1 μ F	0.022 μ F – 0.068 μ F
1808	0.018 μ F – 0.15 μ F	0.018 μ F – 0.1 μ F	0.018 μ F – 0.068 μ F
1812	0.027 μ F – 0.33 μ F	0.027 μ F – 0.15 μ F	0.027 μ F – 0.1 μ F
1825	0.12 μ F – 0.39 μ F	0.12 μ F – 0.27 μ F	
2220	0.15 μ F – 0.47 μ F	0.15 μ F – 0.33 μ F	
2225	0.18 μ F – 0.56 μ F	0.18 μ F – 0.47 μ F	

KPS High Voltage, X7R Dielectric, 500 & 630 VDC

Capacitance Range: 0.047 to 1 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/KPS-HV-X7R



C	2220	C	105	M	C	R	2	C	7186
Ceramic	Case Size (L" x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance ¹	Rated Voltage (VDC)	Dielectric	Failure Rate/ Design	Leadframe Finish ²	Packaging/ Grade (C-Spec)
	2220	C = Standard	Two significant digits and number of zeros.	K = $\pm 10\%$ M = $\pm 20\%$	C = 500 B = 630	R = X7R	1 = KPS single chip stack 2 = KPS double chip stack	C = 100% Matte Sn	See "Packaging C-Spec Ordering Options Table"

Case Size	Voltage	
	500	630
2220-1	0.047 μ F – 0.22 μ F	0.047 μ F – 0.22 μ F
2220-2	0.1 μ F – 0.47 μ F	0.1 μ F – 0.47 μ F

Industrial & Military Grade

High Voltage Military Equivalent, C0G Dielectric, 1515 – 6560 Case Sizes, 500 – 5,000 VDC

Capacitance Range: 12 pF to 0.1 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/MIL-EQV-C0G



6560	N	683	J	501	P	M
Case Size (L" x W")	Dielectric	Capacitance Code (pF)	Capacitance Tolerance	Voltage	Termination	Screening
1515 1812 1825 2020 2225 2520 3333 3530 4040 4540 5440 5550 6560	N = C0G	First two digits are significant. Last digit is number or zeros. i.e., 472 = 4,700 pF	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$ P = 0/+100% Z = -20%/+80%	First two digits are significant. Last digit is number or zeros. i.e., 202 = 2,000 V	P = PdAg S = Ag E = Ag/Ni/SnPb C = Ag/Ni/Sn	Blank = No additional screening M = Group A screening per MIL-PRF-49470 (Subgroup 1 excluding corona)

Case Size	Voltage					
	500	1,000	2,000	3,000	4,000	5,000
1515	39 pF – 2.7 nF	39 pF – 1.5 nF	39 pF – 680 pF	39 pF – 150 pF		
1812	56 pF – 2.7 nF	56 pF – 1.2 nF	56 pF – 470 pF	56 pF – 120 pF		
1825	100 pF – 8.2 nF	100 pF – 3.9 nF	100 pF – 820 pF	100 pF – 470 pF		
2020	39 pF – 4.7 nF	39 pF – 0.033 μ F	22 pF – 820 pF	22 pF – 560 pF		
2225	150 pF – 0.012 μ F	150 pF – 8.2 nF	150 pF – 1.2 nF	150 pF – 0.012 μ F		
2520	47 pF – 0.01 μ F	47 pF – 6.8 nF	33 pF – 1.2 nF	33 pF – 680 pF		
3333	100 pF – 0.015 μ F	100 pF – 0.012 μ F	100 pF – 2.7 nF	100 pF – 1.5 nF	100 pF – 680 pF	
3530	100 pF – 0.022 μ F	100 pF – 0.015 μ F	82 pF – 3.3 nF	82 pF – 1.5 nF	82 pF – 680 pF	
4040	220 pF – 0.015 μ F	220 pF – 0.015 μ F	100 pF – 5.6 nF	100 pF – 2.2 nF	82 pF – 1 nF	
4540	220 pF – 0.056 μ F	220 pF – 0.033 μ F	100 pF – 6.8 nF	100 pF – 3.9 nF	27 pF – 1.5 nF	27 pF – 1 nF
5440	390 pF – 0.082 μ F	390 pF – 0.033 μ F	150 pF – 8.2 nF	150 pF – 3.3 nF	150 pF – 1.8 nF	
5550	390 pF – 0.1 μ F	390 pF – 0.047 μ F	180 pF – 0.01 μ F	180 pF – 5.6 nF	180 pF – 1.8 nF	180 pF – 1.8 nF
6560	470 pF – 0.068 μ F	470 pF – 0.068 μ F	270 pF – 0.018 μ F	270 pF – 8.2 nF	100 pF – 3.9 nF	100 pF – 2.7 nF

Industrial & Military Grade (cont.)

High Voltage Military Equivalent, X7R Dielectric, 1515 – 6560 Case Sizes, 500 – 5,000 VDC

Capacitance Range: 330 pF to 2.9 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/MIL-EQV-X7R



4540	B	472	M	202	P	M
Case Size (L" x W")	Dielectric	Capacitance Code (pF)	Capacitance Tolerance	Voltage	Termination	Screening
1515 1812 1825 2020 2225 2520 3333 3530 4040 4540 5440 5550 6560	B = X7R R = X7R	First two digits are significant. Last digit is number or zeros. i.e., 472 = 4,700 pF	K = $\pm 10\%$ M = $\pm 20\%$ P = 0/+100% Z = -20%/+80%	First two digits are significant. Last digit is number or zeros. i.e., 202 = 2,000 V	P = PdAg S = Ag E = Ag/Ni/SnPb C = Ag/Ni/Sn	Blank = No additional screening M = Group A screening per MIL-PRF-49470 (Subgroup 1 excluding corona)

Case Size	Voltage					
	500	1,000	2,000	3,000	4,000	5,000
1515	680 pF – 0.1 μ F	680 pF – 0.022 μ F	270 pF – 3.9 nF			
1812	680 pF – 0.056 μ F	680 pF – 0.018 μ F	270 pF – 2.7 nF			
1825	1.2 nF – 0.15 μ F	1.2 nF – 0.068 μ F	560 pF – 8.2 nF	560 pF – 2.7 nF		
2020	1.2 nF – 0.18 μ F	1.2 nF – 0.068 μ F	560 pF – 8.2 nF	560 pF – 3.9 nF		
2225	1.2 nF – 0.22 μ F	1.2 nF – 0.068 μ F	680 pF – 0.015 μ F	680 pF – 4.7 nF		
2520	1.2 nF – 0.22 μ F	1.2 nF – 0.082 μ F	680 pF – 0.018 μ F	680 pF – 5.6 nF		
3333	3.3 nF – 0.82 μ F	3.3 nF – 0.47 μ F	1.2 nF – 0.027 μ F	1.2 nF – 0.022 μ F		
3530	3.3 nF – 0.56 μ F	3.3 nF – 0.27 μ F	1.2 nF – 0.033 μ F	1.2 nF – 0.015 μ F	270 pF – 6.8 nF	
4040	6.8 nF – 0.82 μ F	6.8 nF – 0.39 μ F	2.7 nF – 0.047 μ F	2.7 nF – 0.018 μ F	470 pF – 8.2 nF	
4540	6.8 nF – 1.2 μ F	6.8 nF – 0.47 μ F	2.7 nF – 0.068 μ F	1 nF – 0.33 μ F	470 pF – 0.01 μ F	470 pF – 6.8 nF
5440	0.01 μ F – 1.5 μ F	0.01 μ F – 0.68 μ F	3.9 nF – 0.056 μ F	3.9 nF – 0.012 μ F	680 pF – 0.01 μ F	
5550	0.01 μ F – 1.8 μ F	0.01 μ F – 0.82 μ F	3.9 nF – 0.12 μ F	3.9 nF – 0.039 μ F	680 pF – 0.015 μ F	680 pF – 0.01 μ F
6560	0.015 μ F – 2.2 μ F	0.015 μ F – 1 μ F	6.8 nF – 0.18 μ F	6.8 nF – 0.18 μ F	1.2 nF – 0.027 μ F	1.2 nF – 0.015 μ F

Industrial & Military Grade (cont.)

High Voltage, High Temperature 200°C, C0G Dielectric, 500 – 2,000 VDC

Capacitance Range: 1 pF to 0.15 µF • Temperature Range: -55°C to +200°C

www.kemet.com/HV-HT-C0G



C	2225	H	393	J	C	G	A	C	TU
Ceramic	Case Size (L" x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance ¹	Rated Voltage (VDC)	Dielectric	Failure Rate/ Design	Termination Finish ²	Packaging/ Grade (C-Spec)
	0805 1206 1210 1808 1812 1825 2220 2225 2824 3040 3640 4540	H = High temperature (200°C)	Two significant digits and number of zeros.	B = ±0.10 pF C = ±0.25 pF D = ±0.5 pF F = ±1% G = ±2% J = ±5% K = ±10% M = ±20%	C = 500 B = 630 D = 1,000 F = 1,500 G = 2,000	G = C0G	A = N/A	C = 100% Matte Sn L = SnPb (5% Pb minimum) E = Gold (Au) 1.97 – 11.8 µin F = Gold (Au) 30 – 50 µin G = Gold (Au) 100 µin minimum	See "Packaging C-Spec Ordering Options Table"

Case Size	Voltage				
	500	630	1,000	1,500	2,000
0805	1 pF – 820 pF	1 pF – 560 pF	1 pF – 270 pF		
1206	10 pF – 2.7 nF	10 pF – 1.8 nF	10 pF – 1 nF	10 pF – 560 pF	10 pF – 270 pF
1210	10 pF – 8.2 nF	10 pF – 5.6 nF	10 pF – 2.7 nF	10 pF – 1.2 nF	10 pF – 680 pF
1808	1 pF – 6.8 nF	1 pF – 4.7 nF	1 pF – 2.7 nF	1 pF – 1.5 nF	1 pF – 680 pF
1812	10 pF – 0.015 µF	10 pF – 0.01 µF	10 pF – 5.6 nF	10 pF – 2.7 nF	10 pF – 1.5 nF
1825	10 pF – 0.033 µF	10 pF – 0.018 µF	10 pF – 0.01 µF	10 pF – 5.6 nF	10 pF – 3 nF
2220	10 pF – 0.033 µF	10 pF – 0.027 µF	10 pF – 0.012 µF	10 pF – 6.8 nF	10 pF – 3.9 nF
2225	10 pF – 0.039 µF	10 pF – 0.027 µF	10 pF – 0.015 µF	10 pF – 6.8 nF	10 pF – 3.9 nF
2824	2.2 nF – 0.056 µF	2.2 nF – 0.039 µF	2.2 nF – 0.022 µF	2.2 nF – 8.2 nF	2.2 nF – 5.6 nF
3040	3.3 nF – 0.1 µF	3.3 nF – 0.068 µF	3.3 nF – 0.039 µF	3.3 nF – 0.015 µF	3.3 nF – 0.01 µF
3640	3.9 nF – 0.12 µF	3.9 nF – 0.068 µF	3.9 nF – 0.047 µF	3.9 nF – 0.018 µF	3.9 nF – 0.015 µF
4540	4.7 nF – 0.15 µF	4.7 nF – 0.1 µF	4.7 nF – 0.068 µF	4.7 nF – 0.027 µF	4.7 nF – 0.018 µF

Industrial & Military Grade (cont.)

KPS High Voltage, Large Case, SM, COG Dielectric, 500 – 10,000 VDC

Capacitance Range: 10 pF to 0.39 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/SM-HV-COG



SM20		N	472	J	501	B	M
Style/Size		Dielectric	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Lead Configuration ¹	Testing/ Inspection Option ²
SM20 SM21 SM22 SM23 SM24 SM25 SM26	SM30 SM31 SM33 SM34 SM35 SM36	N = COG	Two significant digits and number of zeros	J = $\pm$ 5% K = $\pm$ 10% M = $\pm$ 20%	501 = 500 102 = 1,000 202 = 2,000 302 = 3,000 402 = 4,000 502 = 5,000 752 = 7,500 103 = 10,000	A = Formed L B = Formed J	Blank = None M = Group A per MIL-PRF-49467

Case Size	Voltage							
	500	1,000	2,000	3,000	4,000	5,000	7,500	10,000
SM20	39 pF – 2.7 nF	39 pF – 2.7 nF	39 pF – 820 pF	39 pF – 270 pF				
SM21	39 pF – 4.7 nF	39 pF – 4.7 nF	22 pF – 1.8 nF	22 pF – 560 pF				
SM22	33 pF – 0.018 μ F	33 pF – 6.8 nF	33 pF – 3.3 nF	33 pF – 1.2 nF				
SM23	82 pF – 0.033 μ F	82 pF – 0.015 μ F	82 pF – 5.6 nF	82 pF – 2.2 nF	82 pF – 680 pF			
SM24	56 pF – 0.068 μ F	56 pF – 0.047 μ F	56 pF – 0.01 μ F	56 pF – 4.7 nF	27 pF – 1.5 nF	27 pF – 1.5 nF		
SM25	270 pF – 0.047 μ F	270 pF – 0.047 μ F	180 pF – 0.012 μ F	180 pF – 5.6 nF	180 pF – 1.8 nF	180 pF – 1.8 nF		
SM26	180 pF – 0.068 μ F	180 pF – 0.068 μ F	180 pF – 0.022 μ F	180 pF – 8.2 nF	100 pF – 3.9 nF	100 pF – 3.9 nF		
SM30	22 pF – 5.6 nF	22 pF – 5.6 nF	22 pF – 1.8 nF	22 pF – 680 pF	22 pF – 120 pF			
SM31	27 pF – 0.033 μ F	27 pF – 0.012 μ F	27 pF – 5.6 nF	27 pF – 1.5 nF	22 pF – 180 pF	22 pF – 180 pF		
SM33	82 pF – 0.1 μ F	82 pF – 0.047 μ F	82 pF – 0.018 μ F	82 pF – 6.8 nF	82 pF – 2.7 nF	27 pF – 2.7 nF	27 pF – 1 nF	
SM34	68 pF – 0.15 μ F	68 pF – 0.056 μ F	56 pF – 0.022 μ F	56 pF – 0.015 μ F	47 pF – 2.7 nF	47 pF – 2.7 nF	39 pF – 1 nF	39 pF – 560 pF
SM35	150 pF – 0.27 μ F	150 pF – 0.15 μ F	150 pF – 0.047 μ F	150 pF – 0.022 μ F	150 pF – 3.9 nF	150 pF – 3.9 nF	150 pF – 1.8 nF	47 pF – 1 nF
SM36	150 pF – 0.39 μ F	150 pF – 0.15 μ F	150 pF – 0.056 μ F	150 pF – 0.033 μ F	120 pF – 0.01 μ F	120 pF – 6.8 nF	120 pF – 3.3 nF	1 nF – 1.5 nF

Industrial & Military Grade (cont.)

KPS High Voltage, Large Case, SM, X7R Dielectric, 500 – 10,000 VDC

Capacitance Range: 150 pF to 5.6 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/SM-HV-X7R



SM20		B	153	K	501	B	M
Style/Size		Dielectric	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Lead Configuration ¹	Testing/ Inspection Option ²
SM20 SM21 SM22 SM23 SM24 SM25 SM26	SM30 SM31 SM33 SM34 SM35 SM36	B = X7R	Two significant digits and number of zeros	K = $\pm 10\%$ M = $\pm 20\%$	501 = 500 102 = 1,000 202 = 2,000 302 = 3,000 402 = 4,000 502 = 5,000 752 = 7,500 103 = 10,000	A = Formed L B = Formed J	Blank = None M = Group A per MIL-PRF-49467

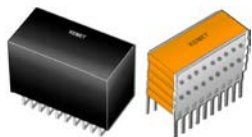
Case Size	Voltage							
	500	1,000	2,000	3,000	4,000	5,000	7,500	10,000
SM20	330 pF – 0.082 μ F	330 pF – 0.022 μ F	330 pF – 3.9 nF					
SM21	820 pF – 0.18 μ F	820 pF – 0.068 μ F	820 pF – 0.012 μ F	820 pF – 4.7 nF				
SM22	680 pF – 0.27 μ F	680 pF – 0.1 μ F	680 pF – 0.015 μ F	680 pF – 5.6 nF				
SM23	1 nF – 0.56 μ F	1 nF – 0.27 μ F	1 nF – 0.033 μ F	1 nF – 0.015 μ F	1 nF – 6.8 nF			
SM24	1 nF – 1.2 μ F	1 nF – 0.47 μ F	1 nF – 0.1 μ F	1 nF – 0.033 μ F	1 nF – 0.012 μ F	1 nF – 6.8 nF		
SM25	2.2 nF – 1.8 μ F	2.2 nF – 0.47 μ F	2.2 nF – 0.12 μ F	2.2 nF – 0.047 μ F	2.2 nF – 0.015 μ F	2.2 nF – 0.01 μ F		
SM26	2.2 nF – 2.9 μ F	2.2 nF – 1 μ F	2.2 nF – 0.18 μ F	2.2 nF – 0.1 μ F	3.9 nF – 0.033 μ F	3.9 nF – 0.015 μ F		
SM30	150 pF – 0.18 μ F	150 pF – 0.056 μ F	150 pF – 0.01 μ F	150 pF – 3.3 nF	150 pF – 1.5 nF			
SM31	680 pF – 0.39 μ F	680 pF – 0.1 μ F	680 pF – 0.022 μ F	680 pF – 8.2 nF	680 pF – 3.9 nF	680 pF – 1.5 nF		
SM33	820 pF – 1.5 μ F	820 pF – 0.68 μ F	820 pF – 0.082 μ F	820 pF – 0.039 μ F	820 pF – 0.012 μ F	820 pF – 6.8 nF	820 pF – 4.7 nF	
SM34	1 nF – 2.2 μ F	1 nF – 1 μ F	1 nF – 0.27 μ F	1 nF – 0.082 μ F	1 nF – 0.033 μ F	1 nF – 0.022 μ F	1 nF – 6.8 nF	1 nF – 5.6 nF
SM35	3.3 nF – 3.9 μ F	3.3 nF – 1.2 μ F	3.3 nF – 0.27 μ F	3.3 nF – 0.1 μ F	3.3 nF – 0.047 μ F	3.3 nF – 0.027 μ F	3.3 nF – 0.01 μ F	1 nF – 6.8 nF
SM36	4.7 nF – 5.6 μ F	4.7 nF – 2.2 μ F	4.7 nF – 0.33 μ F	4.7 nF – 0.15 μ F	4.7 nF – 0.068 μ F	4.7 nF – 0.033 μ F	4.7 nF – 0.022 μ F	1.5 nF – 0.01 μ F

Industrial & Military Grade (cont.)

KPS MIL SMPS Stacked Capacitors, 50 – 500 VDC (Commercial, Military, & Space Grades)

Capacitance Range: 0.047 to 75 μF • Temperature Range: -55°C to +125°C

www.kemet.com/Stack-MIL



L1	R	N	30	C	106	K	S	12
Product Family ¹	Dielectric Classification/Characteristic ²	Lead Configuration ³	Case Size/Case Code (CC)	Rated Voltage (VDC)	Capacitance Code (pF)	Capacitance Tolerance	Testing Option ⁴	Maximum Height Dimension (in.) ⁵
L1 = Unencapsulated L2 = Encapsulated	Q = BQ R = BR X = BX W = X7R	N = Straight L = Formed L M = Formed L J = Formed J K = Formed J	30 = CC 3 40 = CC 4 50 = CC 5	3 = 25 5 = 50 1 = 100 2 = 200 C = 500 B = 630 D = 1,000	Two significant digits and number of zeros	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	B = M49470 B level T = M49470 T level C = DSCC87106 S = Commercial X = Non-standard (Customer specific requirements)	Unencapsulated 12 = 0.12" 24 = 0.24" 36 = 0.36" 48 = 0.48" 65 = 0.65" Encapsulated 27 = 0.27" 39 = 0.39" 53 = 0.53" 66 = 0.66" 80 = 0.80"

MIL-PRF-49470, DSCC 87106

M49470	R	01	474	K	C	N
Performance Specification Indicating MIL-PRF-49470 ¹	Dielectric Classification/Characteristic ²	Performance Specification Sheet Number (Indicating MIL-PRF-49470/1) ³	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Lead Configuration ⁴
M49470 = B level T49470 = T level A T prefix is used in place of the M for T level product.	Q = BQ R = BR X = BX	01 = Unencapsulated 02 = Encapsulated	Two significant digits and number of zeros	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	A = 50 B = 100 C = 200 E = 500	N = Straight Pin L = Formed L M = Formed L J = Formed J K = Formed J

Case Size	Voltage			
	50	100	200	500
3	18 μF – 47 μF	10 μF – 27 μF	4.7 μF – 12 μF	2.2 μF – 5.6 μF
4	6.8 μF – 15 μF	3.9 μF – 8.2 μF	1.8 μF – 3.9 μF	0.82 μF – 1.8 μF
5	1 μF – 5.6 μF	0.68 μF – 3.3 μF	0.47 μF – 1.5 μF	0.15 μF – 0.68 μF

Commercial Grade

Goldmax 300, Radial, Conformally Coated, COG Dielectric, 500 – 3,000 VDC

Capacitance Range: 1 pF to 0.039 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/C300-COG



C	320			C	332	J	C	G	5	T	A	7301
Ceramic	Style/Size			Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance ¹	Rated Voltage (VDC)	Dielectric	Design	Lead Finish ²	Failure Rate	Packaging (C-Spec)
	315	324	335	C = Standard	First two digits represent significant figures. Third digit specifies number of zeros.	B = ± 0.1 pF	C = 500	G = COG	5 = Multilayer	T = 100% Matte Sn H = SnPb (60/40)	A = N/A	See "Packaging C-Spec Ordering Options Table"
	316	325	336			C = ± 0.25 pF	B = 630					
	317	326	340			D = ± 0.5 pF	D = 1,000					
	318	327	346			F = $\pm 1\%$	F = 1,500					
	320	328	350			G = $\pm 2\%$	G = 2,000					
	321	330	356			J = $\pm 5\%$	Z = 2,500					
	322	331				K = $\pm 10\%$	H = 3,000					
	323	333										

Case Size	Voltage						
	500	630	1,000	1,500	2,000	2,500	3,000
C31x	1 pF – 820 pF	1 pF – 560 pF	1 pF – 270 pF				
C32x	1 pF – 8.2 nF	1 pF – 6.8 nF	1 pF – 2.7 nF	10 pF – 1.2 nF	10 pF – 680 pF		
C33x	10 pF – 0.033 μ F	10 pF – 0.018 μ F	10 pF – 0.012 μ F	10 pF – 5.6 nF	10 pF – 3 nF	10 pF – 1.8 nF	10 pF – 680 pF
C34x	10 pF – 0.033 μ F	10 pF – 0.018 μ F	10 pF – 0.012 μ F	10 pF – 5.6 nF	10 pF – 3 nF	10 pF – 1.8 nF	10 pF – 680 pF
C35x	10 pF – 0.039 μ F	10 pF – 0.027 μ F	10 pF – 0.015 μ F	10 pF – 6.8 nF	10 pF – 3.9 nF	10 pF – 2.2 nF	10 pF – 1 nF

Goldmax 600, Radial, Conformally Coated, COG Dielectric, 500 – 3,000 VDC

Capacitance Range: 12 pF to 0.1 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/C600-COG



C	627			C	224	K	C	G	5	T	A	7301
Ceramic	Style/Size			Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance ¹	Rated Voltage (VDC)	Dielectric	Design	Lead Finish ²	Failure Rate	Packaging (C-Spec)
	617	637	648	C = Standard	First two digits represent significant figures. Third digit specifies number of zeros.	K = $\pm 10\%$ M = $\pm 20\%$ Z = +80%, -20%	C = 500	G = COG	5 = Multilayer	T = 100% Matte Sn H = SnPb (60/40)	A = N/A	See "Packaging C-Spec Ordering Options Table"
	622	638	657				D = 1,000					
	623	640	658				F = 1,500					
	627	641	667				G = 2,000					
	628	642	668				Z = 2,500					
	630	643					H = 3,000					
	631	647										

Case Size	Voltage					
	500	1,000	1,500	2,000	2,500	3,000
C61x	12 pF – 4.7 nF	12 pF – 2.2 nF	15 pF – 680 pF	15 pF – 680 pF		15 pF – 330 pF
C62x	22 pF – 0.018 μ F	22 pF – 6.8 nF	22 pF – 3.3 nF	22 pF – 3.3 nF		22 pF – 1.2 nF
C63x	15 pF – 0.033 μ F	15 pF – 0.015 μ F	82 pF – 5.6 nF	15 pF – 5.6 nF	15 pF – 2.2 nF	15 pF – 2.2 nF
C64x	56 pF – 0.047 μ F	56 pF – 0.047 μ F		56 pF – 0.01 μ F		56 pF – 4.7 nF
C65x	180 pF – 0.047 μ F	180 pF – 0.047 μ F		180 pF – 0.012 μ F		180 pF – 5.6 nF
C66x	180 pF – 0.1 μ F	180 pF – 0.068 μ F		180 pF – 0.022 μ F		180 pF – 8.2 nF

Ceramic Capacitors

Leaded

Commercial Grade (cont.)

Goldmax 300, Radial, Conformally Coated, X7R Dielectric, 500 – 3,000 VDC

Capacitance Range: 10 pF to 0.56 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/C300-X7R



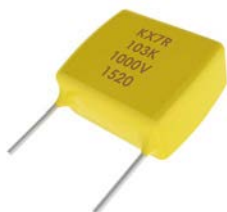
C	320			C	473	K	C	R	5	T	A	7301
Ceramic	Style/Size			Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance ¹	Rated Voltage (VDC)	Dielectric	Design	Lead Finish ²	Failure Rate	Packaging (C-Spec)
	315	324	335	C = Standard	First two digits represent significant figures. Third digit specifies number of zeros.	J = $\pm$ 5% K = $\pm$ 10% M = $\pm$ 20%	C = 500 B = 630 D = 1,000 F = 1,500 G = 2,000 Z = 2,500 H = 3,000	R = X7R	5 = Multilayer	T = 100% Matte Sn H = SnPb (60/40)	A = N/A	See "Packaging C-Spec Ordering Options Table"
	316	325	336									
	317	326	340									
	318	327	346									
	320	328	350									
	321	330	356									
	322	331										
	323	333										

Case Size	Voltage						
	500	630	1,000	1,500	2,000	2,500	3,000
C31x	10 pF – 0.012 μ F	10 pF – 8.2 nF	10 pF – 4.7 nF				
C32x	10 pF – 0.15 μ F	10 pF – 0.1 μ F	10 pF – 0.068 μ F	10 pF – 0.039 μ F	10 pF – 6.8 nF		
C33x	10 pF – 0.47 μ F	10 pF – 0.33 μ F	10 pF – 1.5 μ F	10 pF – 0.068 μ F	10 pF – 0.018 μ F	10 pF – 0.012 μ F	10 pF – 0.012 μ F
C34x	10 pF – 0.47 μ F	10 pF – 0.33 μ F	10 pF – 0.15 μ F	10 pF – 0.068 μ F	10 pF – 0.018 μ F	10 pF – 0.012 μ F	10 pF – 0.012 μ F
C35x	100 pF – 0.56 μ F	100 pF – 0.47 μ F	100 pF – 0.15 μ F	100 pF – 0.1 μ F	100 pF – 0.027 μ F	100 pF – 0.015 μ F	100 pF – 0.015 μ F

Goldmax 600, Radial, Conformally Coated, X7R Dielectric, 500 – 3,000 VDC

Capacitance Range: 150 pF to 2.9 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/C600-X7R



C	627			C	224	K	C	R	5	T	A	7301
Ceramic	Style/Size			Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance ¹	Rated Voltage (VDC)	Dielectric	Design	Lead Finish ²	Failure Rate	Packaging (C-Spec)
	617	637	648	C = Standard	First two digits represent significant figures. Third digit specifies number of zeros.	K = $\pm$ 10% M = $\pm$ 20% Z = +80%, -20%	C = 500 D = 1,000 F = 1,500 G = 2,000 Z = 2,500 H = 3,000	R = X7R	5 = Multilayer	T = 100% Matte Sn H = SnPb (60/40)	A = N/A	See "Packaging C-Spec Ordering Options Table"
	622	638	657									
	623	640	658									
	627	641	667									
	628	642	668									
	630	643										
	631	647										

Case Size	Voltage					
	500	1,000	1,500	2,000	2,500	3,000
C61x	820 pF – 0.082 μ F	820 pF – 0.022 μ F	820 pF – 4.7 nF	820 pF – 4.7 nF		
C62x	680 pF – 0.27 μ F	680 pF – 0.1 μ F	680 pF – 0.015 μ F	680 pF – 0.015 μ F		680 pF – 5.6 nF
C63x	150 pF – 0.56 μ F	150 pF – 0.27 μ F	150 pF – 0.033 μ F	150 pF – 0.033 μ F	150 pF – 0.015 μ F	150 pF – 0.015 μ F
C64x	680 pF – 1.2 μ F	680 pF – 0.47 μ F		680 pF – 0.1 μ F		680 pF – 0.033 μ F
C65x	2.2 nF – 1.8 μ F	2.2 nF – 0.82 μ F		2.2 nF – 0.12 μ F		2.2 nF – 0.047 μ F
C66x	2.2 nF – 2.7 μ F	2.2 nF – 1 μ F		2.2 nF – 0.18 μ F		2.2 nF – 0.1 μ F

Industrial & Military Grade

HV Radial, Conformally Coated, C0G & X7R Dielectric, 500 – 10,000 VDC

Capacitance Range: 12 pF to 5.6 µF • Temperature Range: -55°C to +125°C

www.kemet.com/HV-Radial



10	HV23	N	102	K	N	M
Rated Voltage (VDC)	Style/Size	Dielectric	Capacitance Code (pF)	Capacitance Tolerance	Lead Finish	Group A Screening
05 = 500 10 = 1,000 20 = 2,000 30 = 3,000 40 = 4,000 50 = 5,000 75 = 7,500 100 = 10,000	HV20 – HV36	N = C0G (NP0) B = X7R	Two significant digits and number of zeros	J = ±5% K = ±10% M = ±20%	N = Nickel C = Solder coated clad steel (standard)	MIL-PRF-49467 (subgroup 1) except corona

C0G

Case Size	Voltage			
	500	1,000	2,000	3,000
HV20 (6.35 x 5.59 x 5.08)	27 pF – 4.7 nF	27 pF – 1.5 nF	12 pF – 680 pF	12 pF – 470 pF
HV21 (8.13 x 7.11 x 6.35)	39 pF – 0.01 µF	39 pF – 0.01 µF	22 pF – 1 nF	22 pF – 560 pF
HV22 (9.4 x 7.62 x 6.35)	47 pF – 0.01 µF	47 pF – 3.9 nF	27 pF – 1 nF	27 pF – 680 pF
HV23 (11.94 x 10.16 x 6.86)	120 pF – 0.022 µF	120 pF – 0.018 µF	47 pF – 3.3 nF	47 pF – 1 nF
HV24 (14.48 x 12.7 x 6.86)	220 pF – 0.056 µF	220 pF – 0.033 µF	100 pF – 6.8 nF	100 pF – 3.9 nF
HV25 (17.02 x 15.24 x 6.86)	330 pF – 0.082 µF	220 pF – 0.047 µF	150 pF – 0.01 µF	150 pF – 6.8 nF
HV26 (19.56 x 18.29 x 6.86)	470 pF – 0.1 µF	220 pF – 0.068 µF	220 pF – 0.022 µF	220 pF – 8.2 nF
HV30 (11.43 x 5.59 x 5.08)	68 pF – 0.015 µF	68 pF – 4.7 nF	15 pF – 1 nF	15 pF – 390 pF
HV31 (13.97 x 7.11 x 6.35)	82 pF – 0.027 µF	82 pF – 0.012 µF	27 pF – 2.2 nF	27 pF – 1.2 nF
HV33 (21.59 x 10.16 x 6.86)	330 pF – 0.12 µF	220 pF – 0.068 µF	68 pF – 0.015 µF	68 pF – 4.7 nF
HV34 (26.67 x 12.7 x 6.86)	470 pF – 0.15 µF	220 pF – 0.056 µF	120 pF – 0.015 µF	120 pF – 5.6 nF
HV35 (31.75 x 15.24 x 6.86)	680 pF – 0.22 µF	220 pF – 0.1 µF	220 pF – 0.022 µF	220 pF – 0.015 µF
HV36 (36.83 x 18.29 x 6.86)	1 nF – 0.33 µF	1 nF – 0.15 µF	270 pF – 0.039 µF	270 pF – 0.018 µF

C0G (cont.)

Case Size	Voltage			
	4,000	5,000	7,000	10,000
HV23 (11.94 x 10.16 x 6.86)	27 pF – 680 pF			
HV24 (14.48 x 12.7 x 6.86)	18 pF – 1.5 nF	18 pF – 1 nF		
HV25 (17.02 x 15.24 x 6.86)	27 pF – 2.7 nF	27 pF – 2.7 nF		
HV26 (19.56 x 18.29 x 6.86)	47 pF – 3.9 nF	47 pF – 2.7 nF		
HV30 (11.43 x 5.59 x 5.08)	10 pF – 220 pF			
HV31 (13.97 x 7.11 x 6.35)	10 pF – 560 pF	10 pF – 390 pF		
HV33 (21.59 x 10.16 x 6.86)	27 pF – 1.5 nF	27 pF – 1.2 nF	12 pF – 470 pF	
HV34 (26.67 x 12.7 x 6.86)	47 pF – 3.3 nF	47 pF – 2.2 nF	18 pF – 1 nF	18 pF – 820 pF
HV35 (31.75 x 15.24 x 6.86)	82 pF – 5.6 nF	82 pF – 3.9 nF	33 pF – 1.8 nF	33 pF – 1.2 nF
HV36 (36.83 x 18.29 x 6.86)	120 pF – 8.2 nF	120 pF – 5.6 nF	56 pF – 2.7 nF	56 pF – 2.2 nF

Industrial & Military Grade (cont.)

HV Radial, Conformally Coated, C0G & X7R Dielectric, 500 – 10,000 VDC (cont.)

Capacitance Range: 12 pF to 5.6 µF • Temperature Range: -55°C to +125°C

www.kemet.com/HV-Radial



10	HV23	N	102	K	N	M
Rated Voltage (VDC)	Style/Size	Dielectric	Capacitance Code (pF)	Capacitance Tolerance	Lead Finish	Group A Screening
05 = 500 10 = 1,000 20 = 2,000 30 = 3,000 40 = 4,000 50 = 5,000 75 = 7,500 100 = 10,000	HV20 – HV36	N = C0G (NP0) B = X7R	Two significant digits and number of zeros	J = ±5% K = ±10% M = ±20%	N = Nickel C = Solder coated clad steel (standard)	MIL-PRF-49467 (subgroup 1) except corona

X7R

Case Size	Voltage				
	500	1,000	2,000	3,000	4,000
HV20 (6.35 x 5.59 x 5.08)	680 pF – 0.082 µF	680 pF – 0.022 µF	270 pF – 4.7 nF		
HV21 (8.13 x 7.11 x 6.35)	100 pF – 0.18 µF	1.2 nF – 0.068 µF	560 pF – 0.012 µF	560 pF – 3.9 nF	
HV22 (9.4 x 7.62 x 6.35)	1.2 nF – 0.22 µF	1.2 nF – 0.1 µF	680 pF – 0.018 µF	680 pF – 5.6 nF	
HV23 (11.94 x 10.16 x 6.86)	3.3 nF – 0.56 µF	3.3 nF – 0.27 µF	1.2 nF – 0.033 µF	1 nF – 0.015 µF	270 pF – 6.8 nF
HV24 (14.48 x 12.7 x 6.86)	6.8 nF – 1.2 µF	6.8 nF – 0.47 µF	2.7 nF – 0.1 µF	2.7 nF – 0.033 µF	470 pF – 0.01 µF
HV25 (17.02 x 15.24 x 6.86)	0.01 µF – 1.8 µF	0.01 µF – 0.68 µF	3.9 nF – 0.1 µF	3.9 nF – 0.039 µF	680 pF – 0.015 µF
HV26 (19.56 x 18.29 x 6.86)	0.015 µF – 2.2 µF	0.015 µF – 1 µF	6.8 nF – 0.18 µF	6.8 nF – 0.082 µF	1.2 nF – 0.027 µF
HV30 (11.43 x 5.59 x 5.08)	1.8 nF – 0.22 µF	1.8 nF – 0.056 µF	390 pF – 8.2 nF	390 pF – 2.2 nF	150 pF – 1.2 nF
HV31 (13.97 x 7.11 x 6.35)	2.7 nF – 0.39 µF	2.7 nF – 0.15 µF	680 pF – 0.022 µF	680 pF – 8.2 nF	270 pF – 4.7 nF
HV33 (21.59 x 10.16 x 6.86)	0.01 µF – 1.5 µF	0.01 µF – 0.68 µF	1.8 nF – 0.082 µF	1.8 nF – 0.027 µF	680 pF – 0.012 µF
HV34 (26.67 x 12.7 x 6.86)	0.012 µF – 2.2 µF	0.012 µF – 1 µF	3.3 nF – 1 µF	3.3 nF – 0.056 µF	1.2 nF – 0.027 µF
HV35 (31.75 x 15.24 x 6.86)	0.018 µF – 3.9 µF	0.018 µF – 1.5 µF	5.6 nF – 0.27 µF	5.6 nF – 0.082 µF	2.2 nF – 0.047 µF
HV36 (36.83 x 18.29 x 6.86)	0.027 µF – 5.6 µF	0.027 µF – 2.2 µF	8.2 nF – 0.39 µF	8.2 nF – 0.15 µF	3.3 nF – 0.068 µF

X7R (cont.)

Case Size	Voltage				
	4,000	5,000	7,000	7,500	10,000
HV23 (11.94 x 10.16 x 6.86)	270 pF – 6.8 nF				
HV24 (14.48 x 12.7 x 6.86)	470 pF – 0.01 µF	470 pF – 6.8 nF			
HV25 (17.02 x 15.24 x 6.86)	680 pF – 0.015 µF	680 pF – 0.01 µF			
HV26 (19.56 x 18.29 x 6.86)	1.2 nF – 0.027 µF	1.2 nF – 0.015 µF			
HV30 (11.43 x 5.59 x 5.08)	150 pF – 1.2 nF				
HV31 (13.97 x 7.11 x 6.35)	270 pF – 4.7 nF	270 pF – 2.7 nF			
HV33 (21.59 x 10.16 x 6.86)	680 pF – 0.012 µF	680 pF – 8.2 nF	220 pF – 3.3 nF	1.5 nF	
HV34 (26.67 x 12.7 x 6.86)	1.2 nF – 0.027 µF	1.2 nF – 0.022 µF	470 pF – 6.8 nF		470 pF – 3.9 nF
HV35 (31.75 x 15.24 x 6.86)	2.2 nF – 0.047 µF	2.2 nF – 0.027 µF	820 pF – 0.01 µF		820 pF – 5.6 nF
HV36 (36.83 x 18.29 x 6.86)	3.3 nF – 0.068 µF	3.3 nF – 0.039 µF	1.2 nF – 0.033 µF	0.018 µF	1.2 nF – 0.033 µF

Industrial & Military Grade (cont.)

High Voltage, MIL-PRF-49467 Equivalent, Radial, BP, BR & BZ, 600 – 5,000 VDC

Capacitance Range: 15 pF to 1.0 µF • Temperature Range: -55°C to +125°C

www.kemet.com/HV-MIL-49467



10	HV60	R	102	K	C
Rated Voltage (VDC)	Style/Size	Dielectric	Capacitance Code (pF)	Capacitance Tolerance	Grade/Test Level
06 = 600 10 = 1,000 20 = 2,000 30 = 3,000 40 = 4,000 50 = 5,000	HV60 – HV69	P = BP C0G (NP0) R = BR (X7R) Z = BZ (X7R)	Two significant digits and number of zeros	J = ±5% K = ±10% M = ±20%	C = CSAM

BP

Case Size	Voltage					
	600	1,000	2,000	3,000	4,000	5,000
HV60 (6.35 x 5.588 x 5.08)	27 pF – 5.6 nF	27 pF – 1.5 nF	12 pF – 390 pF			
HV61 (8.128 x 7.112 x 6.35)	39 pF – 0.012 µF	39 pF – 1.8 nF	22 pF – 1 nF	22 pF – 470 pF		
HV62 (9.398 x 7.62 x 6.35)	47 pF – 0.018 µF	47 pF – 8.2 nF	27 pF – 1.2 nF	27 pF – 680 pF		
HV63 (11.938 x 10.16 x 6.858)	120 pF – 0.039 µF	120 pF – 4.7 nF	47 pF – 2.2 nF	47 pF – 1.5 nF	47 pF – 1 nF	
HV64 (14.478 x 12.7 x 6.858)	220 pF – 0.068 µF	220 pF – 0.047 µF	100 pF – 4.7 nF	100 pF – 3.3 nF	100 pF – 1.8 nF	100 pF – 1.2 nF
HV65 (17.018 x 15.24 x 6.858)		330 pF – 0.018 µF	150 pF – 0.01 µF	150 pF – 4.7 nF	150 pF – 3.3 nF	150 pF – 2.2 nF
HV66 (19.558 x 18.288 x 6.858)		470 pF – 0.027 µF	470 pF – 0.01 µF	270 pF – 8.2 nF	270 pF – 4.7 nF	270 pF – 3.3 nF

BR & BZ

Case Size	Voltage					
	600	1,000	2,000	3,000	4,000	5,000
HV60 (6.35 x 5.588 x 5.08)	680 pF – 0.027 µF	680 pF – 0.012 µF	270 pF – 4.7 nF			
HV61 (8.128 x 7.112 x 6.35)	1.2 nF – 0.082 µF	1.2 nF – 0.047 µF	560 pF – 0.01 µF	560 pF – 3.3 nF		
HV62 (9.398 x 7.62 x 6.35)	1.2 nF – 0.1 µF	1.2 nF – 0.1 µF	680 pF – 0.01 µF	680 pF – 3.9 nF		
HV63 (11.938 x 10.16 x 6.858)	3.3 nF – 0.33 µF	3.3 nF – 0.33 µF	1.2 nF – 0.033 µF	1.2 nF – 0.015 µF	270 pF – 6.8 nF	
HV64 (14.478 x 12.7 x 6.858)	6.8 nF – 0.47 µF	6.8 nF – 0.47 µF	2.7 nF – 0.1 µF	2.7 nF – 0.022 µF	470 pF – 0.01 µF	470 pF – 6.8 nF
HV65 (17.018 x 15.24 x 6.858)		0.01 µF – 0.22 µF	3.9 nF – 0.082 µF	3.9 nF – 0.033 µF	680 pF – 0.015 µF	680 pF – 0.01 µF
HV66 (19.558 x 18.288 x 6.858)		0.01 µF – 0.47 µF	6.8 nF – 0.15 µF	6.8 nF – 0.056 µF	1.2 nF – 0.027 µF	1.2 nF – 0.015 µF
HV68 (33.02 x 15.24 x 6.858)				5.6 nF – 0.068 µF	2.2 nF – 0.039 µF	2.2 nF – 0.022 µF
HV69 (38.1 x 18.288 x 6.858)				8.2 nF – 0.1 µF	3.3 nF – 0.056 µF	3.3 nF – 0.056 µF

Industrial & Military Grade (cont.)

HS High Voltage Space Quality, Radial, C0G & X7R, Radial, 500 – 10,000 VDC

Capacitance Range: 12 pF to 5.6 µF • Temperature Range: -55°C to +125°C

www.kemet.com/HS



10	HS24	B	103	K	C	F
Rated Voltage (VDC)	Style/Size	Dielectric	Capacitance Code (pF)	Capacitance Tolerance	Grade/ Test Level	Lead Finish
05 = 500 10 = 1,000 20 = 2,000 30 = 3,000 40 = 4,000 50 = 5,000 75 = 7,500 100 = 10,000	HS20 – HS36	B = X7R N = BP C0G (NP0)	Two significant digits and number of zeros	J = ±5% K = ±10% M = ±20% P = 0/+100% Z = -20%/+80%	C = CSAM	Inert liquid (burn-in) Standard for > 2 kV Add F if required for 500 V or 1 kV parts

C0G

Case Size	Voltage			
	500	1,000	2,000	3,000
HS20 (6.35 x 5.59 x 5.08)	27 pF – 4.7 nF	27 pF – 2.7 nF	12 pF – 470 pF	
HS21 (8.13 x 7.11 x 6.35)	39 pF – 8.2 nF	39 pF – 5.6 nF	22 pF – 1.2 nF	
HS22 (9.4 x 7.62 x 6.35)	47 pF – 0.012 µF	47 pF – 5.6 nF	27 pF – 1.5 nF	
HS23 (11.94 x 10.16 x 6.89)	120 pF – 0.033 µF	120 pF – 0.022 µF	47 pF – 2.7 nF	47 pF – 1.8 nF
HS24 (14.48 x 12.7 x 6.89)	220 pF – 0.056 µF	220 pF – 0.047 µF	100 pF – 5.6 nF	100 pF – 3.3 nF
HS25 (17.02 x 15.24 x 6.89)	390 pF – 0.1 µF	390 pF – 0.047 µF	150 pF – 0.01 µF	150 pF – 6.8 nF
HS26 (19.56 x 18.29 x 6.89)	470 pF – 0.15 µF	470 pF – 0.068 µF	270 pF – 0.022 µF	270 pF – 0.01 µF
HS30 (11.43 x 5.59 x 5.08)	68 pF – 0.012 µF	68 pF – 5.6 nF	15 pF – 1 nF	15 pF – 390 pF
HS31 (13.97 x 7.11 x 6.35)	82 pF – 0.022 µF	82 pF – 0.012 µF	27 pF – 1.2 nF	27 pF – 1.2 nF
HS33 (21.59 x 10.16 x 6.89)	330 pF – 0.082 µF	330 pF – 0.047 µF	68 pF – 3.9 nF	68 pF – 2.7 nF
HS34 (26.67 x 12.7 x 6.89)	470 pF – 0.15 µF	470 pF – 0.068 µF	120 pF – 8.2 nF	120 pF – 5.6 nF
HS35 (31.75 x 15.24 x 6.89)	680 pF – 0.12 µF	680 pF – 0.1 µF	220 pF – 0.012 µF	220 pF – 8.2 nF
HS36 (36.83 x 18.29 x 6.89)	1 nF – 0.18 µF	1 nF – 0.068 µF	270 pF – 0.018 µF	270 pF – 0.012 µF

C0G (cont.)

Case Size	Voltage			
	4,000	5,000	7,500	10,000
HS24 (14.48 x 12.7 x 6.89)	15 pF – 1 nF	15 pF – 560 pF		
HS25 (17.02 x 15.24 x 6.89)	27 pF – 1.8 nF	27 pF – 1.5 nF		
HS26 (19.56 x 18.29 x 6.89)	47 pF – 2.7 nF	47 pF – 2.2 nF		
HS31 (13.97 x 7.11 x 6.35)	22 pF – 220 pF	10 pF – 220 pF		
HS33 (21.59 x 10.16 x 6.89)	27 pF – 1.5 nF	27 pF – 1.2 nF		
HS34 (26.67 x 12.7 x 6.89)	47 pF – 3.3 nF	47 pF – 2.2 nF	18 pF – 820 pF	
HS35 (31.75 x 15.24 x 6.89)	82 pF – 4.7 nF	82 pF – 3.9 nF	33 pF – 1.2 nF	33 pF – 1 nF
HS36 (36.83 x 18.29 x 6.89)	120 pF – 0.01 µF	120 pF – 6.8 nF	56 pF – 2.7 nF	56 pF – 1.5 nF

Industrial & Military Grade (cont.)

HS High Voltage Space Quality, Radial, C0G & X7R, Radial, 500 – 10,000 VDC (cont.)

Capacitance Range: 12 pF to 5.6 µF • Temperature Range: -55°C to +125°C

www.kemet.com/HS



10	HS24	B	103	K	C	F
Rated Voltage (VDC)	Style/Size	Dielectric	Capacitance Code (pF)	Capacitance Tolerance	Grade/ Test Level	Lead Finish
05 = 500 10 = 1,000 20 = 2,000 30 = 3,000 40 = 4,000 50 = 5,000 75 = 7,500 100 = 10,000	HS20 – HS36	B = X7R N = BP C0G (NP0)	Two significant digits and number of zeros	J = ±5% K = ±10% M = ±20% P = 0/+100% Z = -20%/+80%	C = CSAM	Inert liquid (burn-in) Standard for > 2 kV Add F if required for 500 V or 1 kV parts

X7R

Case Size	Voltage			
	500	1,000	2,000	3,000
HS20 (6.35 x 5.59 x 5.08)	680 pF – 0.047 µF	680 pF – 0.012 µF	270 pF – 4.7 nF	
HS21 (8.13 x 7.11 x 6.35)	1.2 nF – 0.15 µF	1.2 nF – 0.047 µF	560 pF – 0.01 µF	
HS22 (9.4 x 7.62 x 6.35)	1.2 nF – 0.22 µF	1.2 nF – 0.1 µF	680 pF – 0.01 µF	
HS23 (11.94 x 10.16 x 6.89)	3.3 nF – 0.56 µF	3.3 nF – 0.27 µF	1.2 nF – 0.033 µF	1.2 nF – 0.015 µF
HS24 (14.48 x 12.7 x 6.89)	6.8 nF – 0.47 µF	6.8 nF – 0.47 µF	2.7 nF – 0.1 µF	2.7 nF – 0.012 µF
HS25 (17.02 x 15.24 x 6.89)	0.01 µF – 1 µF	0.01 µF – 0.47 µF	3.9 nF – 0.068 µF	3.9 nF – 0.022 µF
HS26 (19.56 x 18.29 x 6.89)	0.015 µF – 2.7 µF	0.015 µF – 1 µF	6.8 nF – 0.18 µF	6.8 nF – 0.056 µF
HS30 (11.43 x 5.59 x 5.08)	1.8 nF – 0.082 µF	1.8 nF – 0.018 µF	390 pF – 3.3 nF	390 pF – 1.2 nF
HS31 (13.97 x 7.11 x 6.35)	2.7 nF – 0.33 µF	2.7 nF – 0.1 µF	560 pF – 0.01 µF	560 pF – 8.2 nF
HS33 (21.59 x 10.16 x 6.89)	0.01 µF – 1.5 µF	0.01 µF – 0.22 µF	1.8 nF – 0.033 µF	1.8 nF – 0.015 µF
HS34 (26.67 x 12.7 x 6.89)	0.012 µF – 1.2 µF	0.012 µF – 1.2 µF	3.3 nF – 0.068 µF	3.3 nF – 0.027 µF
HS35 (31.75 x 15.24 x 6.89)	0.018 µF – 2.7 µF	0.018 µF – 0.47 µF	5.6 nF – 0.27 µF	5.6 nF – 0.068 µF
HS36 (36.83 x 18.29 x 6.89)	0.027 µF – 5.6 µF	0.027 µF – 2.2 µF	8.2 nF – 0.15 µF	8.2 nF – 0.15 µF

X7R (cont.)

Case Size	Voltage				
	4,000	5,000	7,000	7,500	10,000
HS24 (14.48 x 12.7 x 6.89)	470 pF – 4.7 nF				
HS25 (17.02 x 15.24 x 6.89)	680 pF – 0.01 µF	680 pF – 0.01 µF			
HS26 (19.56 x 18.29 x 6.89)	1.2 nF – 0.015 µF	1.2 nF – 0.015 µF			
HS31 (13.97 x 7.11 x 6.35)	270 pF – 2.2 nF				
HS33 (21.59 x 10.16 x 6.89)	680 pF – 6.8 nF	680 pF – 4.7 nF		220 pF – 4.7 nF	
HS34 (26.67 x 12.7 x 6.89)	1.2 nF – 0.015 µF	1.2 nF – 0.015 µF		470 pF – 3.3 nF	
HS35 (31.75 x 15.24 x 6.89)	2.2 nF – 0.022 µF	2.2 nF – 0.012 µF		820 pF – 0.01 µF	820 pF – 3.3 nF
HS36 (36.83 x 18.29 x 6.89)	3.3 nF – 0.068 µF	3.3 nF – 0.039 µF	1.2 nF – 0.033 µF		1.2 nF – 0.033 µF

Industrial & Military Grade (cont.)

High Voltage, 200°C, Radial Conformal Coated, C0G & X7R Dielectric, 500 – 4,000 VDC

Capacitance Range: 12 pF to 0.47 µF • Temperature Range: -55°C to +200°C

www.kemet.com/HV200C



10	HV12	W	472	K	N	M
Rated Voltage (VDC)	Style/Size	Dielectric	Capacitance Code (pF)	Capacitance Tolerance	Lead Finish	Group A Screening
05 = 500 10 = 1,000 20 = 2,000 30 = 3,000 40 = 4,000	HV10 – HV16	N = C0G (NP0) W = X7R	Two significant digits and number of zeros	J = ±5% K = ±10% M = ±20%	N = Nickel (standard) C = Solder coated clad steel	MIL-PRF-49467 (subgroup 1) except corona

C0G

Case Size	Voltage				
	500	1,000	2,000	3,000	4,000
HV10 (6.35 x 5.59 x 3.81)	27 pF – 1.5 nF	27 pF – 1.5 nF	10 pF – 390 pF		
HV11 (8.13 x 7.62 x 6.35)	39 pF – 2.2 nF	39 pF – 1.8 nF	22 pF – 1 nF	22 pF – 470 pF	
HV12 (10.67 x 10.16 x 6.35)	47 pF – 3.3 nF	47 pF – 2.7 nF	27 pF – 1.5 nF	27 pF – 1 nF	
HV13 (13.21 x 12.7 x 7.62)	120 pF – 5.6 nF	120 pF – 4.7 nF	120 pF – 3.3 nF	120 pF – 2.7 nF	
HV14 (15.75 x 12.7 x 7.62)	180 pF – 8.2 nF	180 pF – 6.8 nF	100 pF – 3.9 nF	100 pF – 3.3 nF	18 pF – 2.7 nF
HV15 (18.29 x 17.78 x 7.62)	390 pF – 0.01 µF	390 pF – 0.01 µF	150 pF – 4.7 nF	150 pF – 3.9 nF	27 pF – 3.3 nF
HV16 (20.83 x 17.78 x 8.89)	470 pF – 0.015 µF	470 pF – 0.015 µF	270 pF – 0.012 µF	270 pF – 8.2 nF	47 pF – 5.6 nF

X7R

Case Size	Voltage				
	500	1,000	2,000	3,000	4,000
HV10 (6.35 x 5.59 x 3.81)	680 pF – 0.047 µF	680 pF – 0.012 µF	100 pF – 4.7 nF		
HV11 (8.13 x 7.62 x 6.35)	1.2 nF – 0.15 µF	1.2 nF – 0.047 µF	560 pF – 2.7 nF		
HV12 (10.67 x 10.16 x 6.35)	1.2 nF – 0.22 µF	1.2 nF – 0.018 µF	680 pF – 0.01 µF		
HV13 (13.21 x 12.7 x 7.62)	3.3 nF – 0.082 µF	3.3 nF – 0.047 µF	1.2 nF – 0.018 µF	1 nF – 0.01 µF	
HV14 (15.75 x 12.7 x 7.62)	6.8 nF – 0.12 µF	6.8 nF – 0.056 µF	2.7 nF – 0.027 µF	2.7 nF – 0.012 µF	470 pF – 0.012 µF
HV15 (18.29 x 17.78 x 7.62)	0.01 µF – 0.22 µF	0.01 µF – 0.056 µF	3.9 nF – 0.027 µF	2.2 nF – 0.015 µF	680 pF – 0.01 µF
HV16 (20.83 x 17.78 x 8.89)	0.015 µF – 0.47 µF	0.015 µF – 0.47 µF	6.8 nF – 0.047 µF	6.8 nF – 0.027 µF	1.2 nF – 0.012 µF

Industrial & Military Grade (cont.)

VCR/VRR 200°C, Radial, C0G & X7R Dielectric, 500 – 5,000 VDC

Capacitance Range: 10 pF to 1.2 µF • Temperature Range: -55°C to +200°C

www.kemet.com/VCR-VRR



V	C	R	40	M	102	K	W	A
Series	Dielectric	Lead Configuration	Case Size	Rated Voltage (VDC)	Capacitance Code (pF)	Capacitance Tolerance	Lead Finish	Grade/ Test Level
V = High Voltage Radial Capacitors	C = C0G (NP0)/BP R = X7R (BX)	R = Radial	07 40 50 60 70 80	L = 500 M = 1,000 T = 2,000 V = 3,000 W = 4,000 X = 5,000	Two significant digits and number of zeros	J = ±5% K = ±10% M = ±20%	W = Solder coated copper clad steel G = Gold-plated copper clad steel	S = Standard A = MIL-PRF-20, Group A test X = Special

VCR

Case Size	Voltage					
	500	1,000	2,000	3,000	4,000	5,000
07 (7.62 x 7.62 x 3.81)	10 pF – 3.3 nF	10 pF – 6.8 nF	10 pF – 470 pF			
40 (8.89 x 10.16 x 6.98)	10 pF – 8.2 nF	10 pF – 3.3 nF	10 pF – 330 pF	10 pF – 270 pF	10 pF – 270 pF	
50 (13.2 x 12.7 x 7.62)	18 pF – 0.018 µF	18 pF – 6.8 nF	18 pF – 1.5 nF	18 pF – 1 nF	18 pF – 1 nF	18 pF – 680 pF
60 (13.97 x 15.24 x 9.52)	22 pF – 0.027 µF	22 pF – 0.015 µF	22 pF – 3.3 nF	22 pF – 2.2 nF	22 pF – 2.2 nF	22 pF – 1.2 nF
70 (16.51 x 17.78 x 9.52)	27 pF – 0.033 µF	27 pF – 0.027 µF	27 pF – 4.7 nF	27 pF – 2.7 nF	27 pF – 2.7 nF	27 pF – 2.2 nF
80 (19.05 x 20.32 x 9.52)	33 pF – 0.056 µF	33 pF – 0.033 µF	33 pF – 6.8 nF	33 pF – 3.9 nF	33 pF – 3.9 nF	33 pF – 2.7 nF

VRR

Case Size	Voltage					
	500	1,000	2,000	3,000	4,000	5,000
07 (7.62 x 7.62 x 3.81)	390 pF – 0.056 µF	390 pF – 0.015 µF	390 pF – 3.9 nF			
40 (8.89 x 10.16 x 6.98)	330 pF – 0.33 µF	330 pF – 0.1 µF	330 pF – 0.027 µF	330 pF – 0.015 µF	330 pF – 6.8 nF	
50 (13.2 x 12.7 x 7.62)	470 pF – 0.33 µF	470 pF – 0.1 µF	470 pF – 0.027 µF	470 pF – 0.015 µF	470 pF – 8.2 nF	470 pF – 2.7 nF
60 (13.97 x 15.24 x 9.52)	560 pF – 0.68 µF	560 pF – 0.18 µF	560 pF – 0.056 µF	560 pF – 0.033 µF	560 pF – 0.018 µF	560 pF – 6.8 nF
70 (16.51 x 17.78 x 9.52)	820 pF – 1 µF	820 pF – 0.27 µF	820 pF – 0.082 µF	820 pF – 0.047 µF	820 pF – 0.027 µF	820 pF – 0.01 µF
80 (19.05 x 20.32 x 9.52)	1 nF – 1.2 µF	1 nF – 0.39 µF	1 nF – 0.12 µF	1 nF – 0.056 µF	1 nF – 0.033 µF	1 nF – 0.015 µF

Film Capacitors

Film Capacitors – DC Film

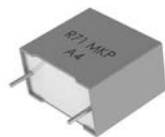
Pulse & High Frequency

Single Metallized Polypropylene

R71 Radial, SMPS PFC Applications, 420 – 1,000 VDC/220 – 275 VAC

Capacitance Range: 0.01 to 22 μ F • Temperature Range: -55°C to +105°C

www.kemet.com/R71



R71	M	F	2100	AA	00	J
Series	Rated Voltage (VDC)	Lead Spacing (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
Metallized Polypropylene	M = 420 V = 520 P = 630 Q = 1,000	F = 10.0 I = 15.0 N = 22.5 R = 27.5 W = 37.5	The last three digits represent significant figures. The first digit specifies the total number of zeros to be added.	See Ordering Options Table	00 10 20 30 40	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$

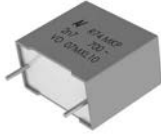
Case Size	Voltage (VDC/VAC)			
	420/220	520/250	630/275	1,000/275
10 - 13 x 9 x 4	10 nF – 100 nF	10 nF – 68 nF	10 nF – 22 nF	
10 - 13 x 11 x 5	150 nF	100 nF	33 nF – 47 nF	
10 - 13 x 12 x 6	220 nF	150 nF	68 nF – 100 nF	
15 - 18 x 11 x 5	100 nF – 220 nF	100 nF – 150 nF	10 nF – 100 nF	
15 - 18 x 12 x 6	330 nF	220 nF	150 nF	
15 - 18 x 12 x 13	680 nF	470 nF	330 nF	
15 - 18 x 12.5 x 9	470 nF	330 nF	220 nF – 330 nF	
15-18x13.5 x 7.5	470 nF	330 nF	220 nF	
15 - 18 x 14.5 x 8.5	680 nF	470 nF	330 nF	
15 - 18 x 16 x 10	1 μ F	680 nF	470 nF	
15 - 18 x 17.5 x 6	470 nF – 680 nF	220 nF – 330 nF	150 nF – 220 nF	
15 - 18 x 18.5 x 7.5	1 μ F	470 nF	330 nF – 470 nF	
15 - 18 x 19 x 11	1.5 μ F	1 μ F	680 nF	
22.5 - 26.5 x 15 x 6	220 nF – 680 nF	220 nF – 470 nF	150 nF – 330 nF	
22.5 - 26.5 x 16 x 7	1 μ F	680 nF	470 nF	
22.5 - 26.5 x 17 x 8.5	1.5 μ F			
22.5 - 26.5 x 18.5 x 10	1.5 μ F – 2.2 μ F	1 μ F	680 nF – 1 μ F	
22.5 - 26.5 x 20 x 11	2.2 μ F	1.5 μ F	1 μ F	
22.5 - 26.5 x 22 x 13	3.3 μ F	2.2 μ F		
27.5 - 32 x 17 x 9	680 nF – 1 μ F	680 nF – 1 μ F	680 nF	220 nF – 560 nF
27.5 - 32 x 20 x 11	1.5 μ F	1 μ F – 1.5 μ F	1 μ F	330 nF – 820 nF
27.5 - 32 x 22 x 13	2.2 μ F		1.5 μ F	470 nF – 1 μ F
27.5 - 32 x 25 x 13	3.3 μ F	2.2 μ F		1.2 μ F
27.5 - 32 x 28 x 14		2.2 μ F – 3.3 μ F	2.2 μ F	680 nF – 1.8 μ F
27.5 - 32 x 33 x 18	4.7 μ F	3.3 μ F – 4.7 μ F	3.3 μ F	1 μ F – 2.7 μ F
27.5 - 32 x 37 x 22	6.8 μ F	4.7 μ F – 6.8 μ F	4.7 μ F	1.8 μ F – 3.9 μ F
37.5 - 41.5 x 22 x 11		2.2 μ F	1.5 μ F	680 nF – 1.5 μ F
37.5 - 41.5 x 24 x 13	3.3 μ F	3.3 μ F	2.2 μ F	820 nF – 1.8 μ F
37.5 - 41.5 x 28.5 x 16	4.7 μ F	3.3 μ F – 4.7 μ F	3.3 μ F	1.2 μ F – 2.7 μ F
37.5 - 41.5 x 32 x 19	6.8 μ F	6.8 μ F	4.7 μ F	1.8 μ F – 3.9 μ F
37.5 - 41.5 x 40 x 20	10 μ F	6.8 μ F – 10 μ F	6.8 μ F	2.2 μ F – 4.7 μ F
37.5 - 41.5 x 44 x 24	15 μ F	10 μ F – 15 μ F	10 μ F	2.7 μ F – 8.2 μ F
37.5 - 41.5 x 45 x 30	22 μ F	15 μ F – 22 μ F	15 μ F	5.6 μ F – 10 μ F

Single Metallized Polypropylene (cont.)

R74 Radial, AC Applications, Automotive Grade, 630 – 2,200 VDC/250 – 900 VAC

Capacitance Range: 471 pF to 3.3 µF • Temperature Range: -55°C to +105°C

www.kemet.com/R74



R74	5	N	2180	AA	00	J
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
Metallized Polypropylene	L = 250 N = 400 5 = 500 6 = 600 7 = 700 9 = 900	F = 10 I = 15 N = 22.5 R = 27.5 W = 37.5	The last three digits represent significant figures. The first digit specifies the total number of zeros to be added.	See Ordering Options Table	00 30 60	J = ±5% K = ±10%

Case Size	Voltage (VDC/VAC)					
	630/250	1,300/400	1,600/500	2,000/600	2,000/700	2,200/900
10 - 13 x 9 x 4	10 nF - 12 nF	2.2 nF - 3.3 nF	1 nF - 1.8 nF	0.5 nF - 1.8 nF	0.5 nF - 1.8 nF	
10 - 13 x 11 x 5	15 nF - 18 nF	3.9 nF - 5.6 nF	2.2 nF - 2.7 nF	2.2 nF - 2.7 nF	2.2 nF - 2.7 nF	
10 - 13 x 12 x 6	22 nF - 27 nF	6.8 nF - 8.2 nF	3.3 nF - 8.2 nF	3.3 nF - 8.2 nF	3.3 nF - 5.6 nF	
15 - 18 x 10 x 4			1.5 nF - 4.7 nF	2.3 nF - 2.7 nF	0.5 nF - 2.2 nF	
15 - 18 x 11 x 5	15 nF - 33 nF	6.8 nF - 10 nF	1.5 nF - 5.6 nF	3.9 nF - 4.7 nF	1 nF - 3.3 nF	
15 - 18 x 12 x 6	39 nF - 47 nF	12 nF - 15 nF	6.8 nF - 10 nF	6.8 nF	3.9 nF - 5.6 nF	
15 - 18 x 12 x 13	82 nF - 100 nF	27 nF - 39 nF	15 nF - 22 nF		10 nF - 12 nF	
15 - 18 x 12.5 x 9	68 nF	22 nF			8.2 nF	
15 - 18 x 13.5 x 7.5	56 nF - 68 nF	18 nF - 22 nF	12 nF - 15 nF		6.8 nF - 8.2 nF	
15 - 18 x 14.5 x 8.5	82 nF - 100 nF	27 nF - 33 nF	18 nF	12 nF - 15 nF	10 nF	
15 - 18 x 16 x 10	120 nF	39 nF - 47 nF	22 nF - 27 nF	18 nF	12 nF - 15 nF	
15 - 18 x 19 x 11	150 nF	56 nF	33 nF		18 nF	
22.5 - 26.5 x 15 x 6		39 nF	18 nF - 22 nF		8.2 nF - 15 nF	1 nF - 6.8 nF
22.5 - 26.5 x 16 x 7		47 nF - 56 nF	27 nF - 33 nF		18 nF	8.2 nF - 10 nF
22.5 - 26.5 x 17 x 8.5		68 nF	39 nF		22 nF - 27 nF	12 nF
22.5 - 26.5 x 18.5 x 10		82 nF - 100 nF	47 nF - 56 nF		33 nF - 39 nF	15 nF - 18 nF
22.5 - 26.5 x 20 x 11		120 nF	68 nF		47 nF	22 nF
22.5 - 26.5 x 22 x 13		150 nF	82 nF - 100 nF		56 nF - 68 nF	27 nF - 33 nF
27.5 - 32 x 17 x 9		150 nF - 180 nF	100 nF - 150 nF		39 nF - 56 nF	22 nF - 27 nF
27.5 - 32 x 20 x 11		220 nF - 270 nF	180 nF - 220 nF		68 nF - 82 nF	33 nF - 39 nF
27.5 - 32 x 22 x 13		330 nF - 390 nF	270 nF		100 nF - 120 nF	47 nF - 56 nF
27.5 - 32 x 28 x 14		470 nF - 680 nF	330 nF - 470 nF		150 nF - 180 nF	68 nF - 82 nF
27.5 - 32 x 33 x 18		820 nF - 1 µF	560 nF - 680 nF		220 nF - 270 nF	100 nF - 150 nF
27.5 - 32 x 37 x 22			820 nF - 1 µF		330 nF	
37.5 - 41.5 x 22 x 11		470 nF	330 nF		150 nF	68 nF
37.5 - 41.5 x 24 x 13		560 nF - 680 nF	390 nF - 470 nF		180 nF	82 nF - 100 nF
37.5 - 41.5 x 28.5 x 16		820 nF - 1 µF	560 nF - 680 nF		220 nF - 270 nF	120 nF - 150 nF
37.5 - 41.5 x 32 x 19		1.2 µF	820 nF - 1 µF		330 nF - 390 nF	180 nF - 220 nF
37.5 - 41.5 x 40 x 20		1.5 µF - 1.8 µF	1.2 µF - 1.5 µF		470 nF - 560 nF	270 nF - 330 nF
37.5 - 41.5 x 44 x 24		2.2 µF - 2.7 µF	1.8 µF		680 nF - 820 nF	390 nF - 470 nF
37.5 - 41.5 x 45 x 30		3.3 µF	2.2 µF		1 µF	

Film Capacitors – DC Film

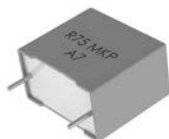
Pulse & High Frequency

Single Metallized Polypropylene

R75 Radial, DC & Pulse Applications, Automotive Grade, 160 – 2,000 VDC/70 – 700 VAC

Capacitance Range: 220 pF to 33 µF • Temperature Range: -55°C to +105°C

www.kemet.com/R75



R75	P	N	2820	AA	30	K
Series	Rated Voltage (VDC)	Lead Spacing (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
Metallized Polypropylene	G = 160 I = 250 M = 400 P = 630 Q = 1,000 R = 1,250 T = 1,600 U = 2,000	D = 7.5 F = 10 I = 15 N = 22.5 R = 27.5 W = 37.5	The last three digits represent significant figures. The first digit specifies the total number of zeros to be added.	See Ordering Options Table	00 10 30 40 50 60 70 80	J = ±5% K = ±10% M = ±20%

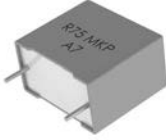
Case Size	Voltage (VDC/VAC)						
	160/70	160/90	250/140	250/160	400/200	400/220	630/220
7.5 - 10 x 9 x 4	100 nF	68 nF – 82 nF	68 nF – 82 nF	27 nF – 56 nF	27 nF	10 nF – 22 nF	10 nF – 12 nF
7.5 - 10 x 10.5 x 5	120 nF – 150 nF	100 nF – 120 nF	100 nF – 120 nF	68 nF – 82 nF	33 nF – 47 nF	27 nF – 33 nF	15 nF – 18 nF
7.5 - 10.5 x 12 x 6	180 nF – 220 nF	150 nF – 180 nF	150 nF – 180 nF	100 nF – 120 nF	56 nF – 68 nF	39 nF – 47 nF	22 nF – 27 nF
10 - 13 x 9 x 4	120 nF – 150 nF	82 nF – 100 nF	82 nF – 100 nF	33 nF – 68 nF		15 nF – 27 nF	
10 - 13 x 11 x 5	180 nF – 220 nF	120 nF – 150 nF	120 nF – 150 nF	82 nF – 100 nF		33 nF – 39 nF	
10 - 13 x 12 x 6	270 nF – 330 nF	180 nF – 220 nF	180 nF – 220 nF	120 nF – 150 nF			
15 - 18 x 11 x 5		180 nF – 220 nF		120 nF – 220 nF		68 nF – 100 nF	
15 - 18 x 12 x 6		270 nF – 330 nF		270 nF – 330 nF		120 nF – 150 nF	
15 - 18 x 12 x 13		680 nF		680 nF – 820 nF		330 nF	
15 - 18 x 12.5 x 9		470 nF – 560 nF		390 nF – 560 nF		220 nF – 270 nF	
15 - 18 x 13.5 x 7.5		390 nF – 470 nF		390 nF – 560 nF		180 nF – 220 nF	

Single Metallized Polypropylene (cont.)

R75 Radial, DC & Pulse Applications, Automotive Grade, 160 – 2,000 VDC/ 70 – 700 VAC (cont.)

Capacitance Range: 220 pF to 33 μ F • Temperature Range: -55°C to +105°C

www.kemet.com/R75



R75	P	N	2820	AA	30	K
Series	Rated Voltage (VDC)	Lead Spacing (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
Metallized Polypropylene	G = 160 I = 250 M = 400 P = 630 Q = 1,000 R = 1,250 T = 1,600 U = 2,000	D = 7.5 F = 10 I = 15 N = 22.5 R = 27.5 W = 37.5	The last three digits represent significant figures. The first digit specifies the total number of zeros to be added.	See Ordering Options Table	00 10 30 40 50 60 70 80	J = $\pm$ 5% K = $\pm$ 10% M = $\pm$ 20%

Case Size	Voltage (VDC/VAC)		
	160/90	250/160	400/220
15 - 18 x 14.5 x 8.5	560 nF – 680 nF	680 nF	270 nF
15 - 18 x 16 x 10	820 nF – 1 μ F	820 nF – 1 μ F	330 nF – 470 nF
15 - 18 x 19 x 11		1.2 μ F	560 nF
22.5 - 26.5 x 15 x 6		390 nF – 680 nF	180 nF – 330 nF
22.5 - 26.5 x 16 x 7	820 nF – 1 μ F	820 nF – 1 μ F	390 nF – 470 nF
22.5 - 26.5 x 17 x 8.5	1.2 μ F	1.2 μ F	560 nF
22.5 - 26.5 x 18.5 x 10	1.5 μ F – 1.8 μ F	1.5 μ F – 1.8 μ F	680 nF – 820 nF
22.5 - 26.5 x 20 x 11		2.2 μ F	1 μ F
22.5 - 26.5 x 22 x 13		2.7 μ F – 3.3 μ F	1.2 μ F – 1.5 μ F
27.5 - 32 x 17 x 9	1.5 μ F – 1.8 μ F	1 μ F – 1.8 μ F	560 nF – 820 nF
27.5 - 32 x 20 x 11	2.2 μ F – 2.7 μ F	2.2 μ F – 2.7 μ F	1 μ F – 1.2 μ F
27.5 - 32 x 22 x 13	3.3 μ F – 3.9 μ F	3.3 μ F – 3.9 μ F	1.5 μ F – 1.8 μ F
27.5 - 32 x 25 x 13	4.7 μ F	4.7 μ F	2.2 μ F
27.5 - 32 x 28 x 14	5.6 μ F	5.6 μ F	2.7 μ F
27.5 - 32 x 33 x 18	6.8 μ F – 8.2 μ F	6.8 μ F – 8.2 μ F	3.3 μ F – 3.9 μ F
27.5 - 32 x 37 x 22	10 μ F – 12 μ F	10 μ F – 12 μ F	4.7 μ F – 5.6 μ F
37.5 - 41.5 x 22 x 11	3.3 μ F – 4.7 μ F	3.3 μ F – 4.7 μ F	1.2 μ F – 2.2 μ F
37.5 - 41.5 x 24 x 13	5.6 μ F	5.6 μ F	2.7 μ F
37.5 - 41.5 x 28.5 x 16	6.8 μ F – 8.2 μ F	6.8 μ F – 8.2 μ F	3.3 μ F – 3.9 μ F
37.5 - 41.5 x 32 x 19	10 μ F – 12 μ F	10 μ F – 12 μ F	4.7 μ F – 5.6 μ F
37.5 - 41.5 x 40 x 20	15 μ F – 18 μ F	15 μ F – 18 μ F	6.8 μ F – 8.2 μ F
37.5 - 41.5 x 44 x 24	22 μ F	22 μ F – 27 μ F	10 μ F
37.5 - 41.5 x 45 x 30	27 μ F – 33 μ F	33 μ F	12 μ F – 15 μ F

Case Size	Voltage (VDC/VAC)	
	630/250	1,000/400
7.5 - 10 x 8 x 3		0.2 nF – 1 nF
7.5 - 10 x 9 x 4	3.3 nF – 8.2 nF	1.2 nF – 3.3 nF
7.5 - 10 x 10.5 x 5	10 nF – 12 nF	3.9 nF – 5.6 nF
7.5 - 10.5 x 12 x 6	15 nF – 18 nF	6.8 nF – 8.2 nF

Film Capacitors – DC Film

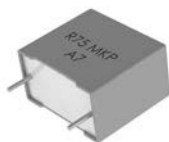
Pulse & High Frequency

Single Metallized Polypropylene (cont.)

R75 Radial, DC & Pulse Applications, Automotive Grade, 160 – 2,000 VDC/ 70 – 700 VAC (cont.)

Capacitance Range: 220 pF to 33 μ F • Temperature Range: -55°C to +105°C

www.kemet.com/R75



R75	P	N	2820	AA	30	K
Series	Rated Voltage (VDC)	Lead Spacing (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
Metallized Polypropylene	G = 160 I = 250 M = 400 P = 630 Q = 1,000 R = 1,250 T = 1,600 U = 2,000	D = 7.5 F = 10 I = 15 N = 22.5 R = 27.5 W = 37.5	The last three digits represent significant figures. The first digit specifies the total number of zeros to be added.	See Ordering Options Table	00 10 30 40 50 60 70 80	J = $\pm$ 5% K = $\pm$ 10% M = $\pm$ 20%

Case Size	Voltage (VDC/VAC)				
	630/250	1,000/250	1,250/600	1,600/650	2,000/700
10 - 13 x 9 x 4	1 nF – 12 nF				
10 - 13 x 11 x 5	15 nF – 18 nF				
10 - 13 x 12 x 6	22 nF				
15 - 18 x 10 x 4				3.9 nF – 4.7 nF	1 nF – 3.3 nF
15 - 18 x 11 x 5	27 nF – 56 nF	12 nF – 22 nF	8.2 nF – 10 nF	5.6 nF – 6.8 nF	3.9 nF – 4.7 nF
15 - 18 x 12 x 6	68 nF – 82 nF	27 nF – 33 nF	12 nF – 15 nF	8.2 nF – 10 nF	5.6 nF – 6.8 nF
15 - 18 x 12 x 13	150 nF – 180 nF	68 nF	27 nF – 33 nF	22 nF	15 nF – 18 nF
15 - 18 x 12.5 x 9	100 nF – 120 nF	47 nF – 56 nF	22 nF	18 nF	12 nF
15 - 18 x 13.5 x 7.5	100 nF – 120 nF	39 nF – 47 nF	18 nF – 22 nF	12 nF – 15 nF	8.2 nF – 10 nF
15 - 18 x 14.5 x 8.5	150 nF	56 nF – 68 nF	27 nF	18 nF	12 nF – 15 nF
15 - 18 x 16 x 10	180 nF – 220 nF	82 nF	33 nF – 39 nF	22 nF – 27 nF	18 nF
15 - 18 x 19 x 11	270 nF – 330 nF	100 nF	47 nF – 56 nF	33 nF	22 nF – 27 nF
22.5 - 26.5 x 15 x 6	82 nF – 150 nF	47 nF – 68 nF	33 nF – 39 nF	27 nF	4.7 nF – 22 nF
22.5 - 26.5 x 16 x 7	180 nF – 220 nF	82 nF – 100 nF	47 nF – 56 nF	33 nF – 39 nF	27 nF
22.5 - 26.5 x 17 x 8.5	270 nF	120 nF	68 nF	47 nF	33 nF
22.5 - 26.5 x 18.5 x 10	330 nF – 390 nF	150 nF – 180 nF	82 nF – 100 nF	56 nF – 68 nF	39 nF – 47 nF
22.5 - 26.5 x 20 x 11	470 nF – 560 nF	220 nF	120 nF	82 nF	56 nF
22.5 - 26.5 x 22 x 13	680 nF		150 nF	100 nF – 120 nF	68 nF
27.5 - 32 x 17 x 9	390 nF – 470 nF	150 nF – 180 nF	100 nF – 120 nF	68 nF – 82 nF	47 nF – 68 nF
27.5 - 32 x 20 x 11	560 nF – 680 nF	220 nF – 270 nF	150 nF – 180 nF	100 nF – 120 nF	82 nF – 100 nF
27.5 - 32 x 22 x 13	820 nF – 1 μ F	330 nF – 390 nF	220 nF	150 nF	120 nF
27.5 - 32 x 25 x 13		470 nF	270 nF	180 nF – 220 nF	150 nF
27.5 - 32 x 28 x 14	1.2 μ F – 1.5 μ F	560 nF	330 nF		180 nF – 220 nF
27.5 - 32 x 33 x 18	1.8 μ F – 2.2 μ F	680 nF – 1 μ F	390 nF – 560 nF	270 nF – 390 nF	270 nF – 330 nF
27.5 - 32 x 37 x 22	2.7 μ F – 3.3 μ F	1.2 μ F – 1.5 μ F	680 nF – 820 nF	470 nF – 560 nF	390 nF – 470 nF
37.5 - 41.5 x 22 x 11	680 nF – 1 μ F	270 nF – 470 nF	270 nF	180 nF	150 nF
37.5 - 41.5 x 24 x 13	1.2 μ F – 1.5 μ F	560 nF – 680 nF	330 nF – 390 nF	220 nF – 270 nF	180 nF – 220 nF
37.5 - 41.5 x 28.5 x 16	1.8 μ F – 2.2 μ F	820 nF – 1 μ F	470 nF – 560 nF	330 nF – 390 nF	270 nF – 330 nF
37.5 - 41.5 x 32 x 19	2.7 μ F – 3.3 μ F	1.2 μ F – 1.5 μ F	680 nF – 820 nF	470 nF – 560 nF	330 nF – 470 nF
37.5 - 41.5 x 40 x 20	3.9 μ F – 4.7 μ F	1.8 μ F	1 μ F – 1.2 μ F	680 nF – 820 nF	560 nF – 680 nF
37.5 - 41.5 x 44 x 24	5.6 μ F	2.2 μ F – 2.7 μ F	1.5 μ F – 1.8 μ F	1 μ F – 1.2 μ F	820 nF – 1 μ F
37.5 - 41.5 x 45 x 30	6.8 μ F – 8.2 μ F	3.3 μ F – 3.9 μ F	2.2 μ F	1.5 μ F	

Single Metallized Polypropylene (cont.)

A70 Axial, 160 – 630 VDC/90 – 250 VAC

Capacitance Range: 0.001 to 4.7 μ F • Temperature Range: -55°C to +105°C

www.kemet.com/A70



A70	G	F	2220	AA	00	J
Series	Rated Voltage (VDC)	Length (mm)	Capacitance Code (pF)	Lead and Packaging Code	Internal Use	Capacitance Tolerance
Metallized Polypropylene	G = 160 I = 250 M = 400 P = 630	F = 11 H = 14 K = 20.5 Q = 28 T = 33	The last three digits represent significant figures. The first digit specifies the total number of zeros to be added.	See Ordering Options Table	00 (Standard)	J = $\pm$ 5% K = $\pm$ 10% M = $\pm$ 20%

Case Size	Voltage (VDC/VAC)			
	160/90	250/200	400/220	630/250
5 x 11	22 nF – 47 nF	10 nF – 15 nF	6.8 nF	1 nF – 4.7 nF
5.5 x 14	68 nF – 100 nF	22 nF – 33 nF	10 nF	6.8 nF
6 x 14		47 nF	15 nF – 22 nF	10 nF
6.5 x 14	150 nF		33 nF	
7 x 14		68 nF		15 nF
7 x 20.5	330 nF		68 nF	
7.5 x 14	220 nF			
7.5 x 20.5		150 nF		33 nF
8 x 14			47 nF	
8 x 20.5	470 nF		100 nF	
8 x 28	680 nF		150 nF	
8.5 x 14		100 nF		22 nF
8.5 x 20.5				47 nF
8.5 x 28		330 nF		68 nF
9 x 20.5		220 nF		
9.5 x 28	1 μ F		220 nF	
10 x 28		470 nF		100 nF
11 x 28	1.5 μ F		330 nF	
11.5 x 28		680 nF		150 nF
12 x 33	2.2 μ F			
12.5 x 33		1 μ F		220 nF – 680 nF
13 x 28			470 nF	
13.5 x 33			680 nF	
14.5 x 33	3.3 μ F			
15 x 33		1.5 μ F		
16.5 x 33			1 μ F	
17 x 33	4.7 μ F			
18 x 33		2.2 μ F		
20 x 33			1.5 μ F	
21.5 x 33		3.3 μ F		

Film Capacitors – DC Film

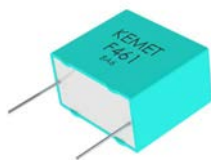
Pulse & High Frequency

Single Metallized Polypropylene (cont.)

F461 – 464 Halogen-Free, 160 – 2,500 VDC/90 – 900 VAC

Capacitance Range: 0.001 to 56 μF • Temperature Range: -55°C to +105°C

www.kemet.com/F461



F	46x	K	E	223	J	160	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging
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 represent significant figures. Third digit specifies number of zeros.	J = $\pm 5\%$ K = $\pm 10\%$ Other tolerances on request	160 = 160 250 = 250 400 = 400 630 = 630 1K0 = 1,000 1L2 = 1,250 1K6 = 1,600 2K0 = 2,000 2K5 = 2,500	See Ordering Options Table

F461

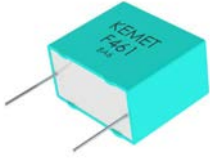
Case Size	Voltage (VDC/VAC)			
	160/90	250/160	400/220	630/250
5 - 7.2 x 6.5 x 2.5	10 nF – 18 nF	10 nF – 15 nF	3.3 nF – 5.6 nF	1.5 nF – 3.3 nF
5 - 7.2 x 7.5 x 3.5	22 nF – 39 nF	22 nF – 27 nF	6.8 nF – 12 nF	3.9 nF – 5.6 nF
5 - 7.2 x 9.5 x 4.5	47 nF – 82 nF	33 nF – 39 nF	15 nF – 22 nF	6.8 nF – 10 nF
5 - 7.2 x 10 x 5		47 nF – 56 nF	27 nF	12 nF
5 - 7.2 x 11 x 6	100 nF – 120 nF	68 nF – 82 nF	33 nF – 39 nF	15 nF – 18 nF
5 - 7.2 x 13 x 7.2	150 nF – 220 nF	100 nF – 150 nF	47 nF – 56 nF	22 nF – 33 nF
7.5 - 10 x 6 x 2.5	15 nF – 22 nF	10 nF – 12 nF	3.3 nF – 4.7 nF	1.5 nF – 2.2 nF
7.5 - 10 x 8 x 3	27 nF – 56 nF	15 nF – 33 nF	5.6 nF – 12 nF	2.7 nF – 6.8 nF
7.5 - 10 x 8 x 4	68 nF – 82 nF	39 nF – 56 nF	15 nF – 22 nF	8.2 nF – 10 nF
7.5 - 10 x 10.5 x 5	100 nF – 180 nF	68 nF – 100 nF	27 nF – 47 nF	12 nF – 22 nF
7.5 - 10.5 x 12 x 6	220 nF – 270 nF	120 nF – 150 nF	56 nF – 68 nF	27 nF – 39 nF
10 - 13 x 9 x 4	100 nF – 150 nF	68 nF – 100 nF	22 nF – 39 nF	10 nF – 22 nF
10 - 13 x 11 x 5	180 nF – 270 nF	120 nF – 220 nF	47 nF – 100 nF	27 nF – 39 nF
10 - 13 x 12 x 6	330 nF – 470 nF	270 nF	120 nF	47 nF – 68 nF
15 - 18 x 10 x 4	150 nF – 270 nF	100 nF – 180 nF	47 nF – 68 nF	22 nF – 39 nF
15 - 18 x 11 x 5	330 nF – 390 nF	220 nF – 270 nF	82 nF – 100 nF	47 nF – 63 nF
15 - 18 x 12 x 6		330 nF		
15 - 18 x 12.5 x 5.5	470 nF – 560 nF		120 nF – 150 nF	68 nF – 82 nF
15 - 18 x 13.5 x 7.5	680 nF – 1 μF	390 nF – 560 nF	180 nF – 270 nF	100 nF – 150 nF
15 - 18 x 14.5 x 8.5	1.2 μF	680 nF – 820 nF		180 nF
15 - 18 x 16 x 10	1.5 μF	1 μF	390 nF – 470 nF	220 nF
15 - 18 x 17.5 x 6			330 nF	
15 - 18 x 19 x 11	2.2 μF – 2.7 μF	1.2 μF – 1.8 μF	560 nF – 820 nF	270 nF – 390 nF
22.5 - 26 x 14.5 x 6	1 μF – 1.2 μF	470 nF – 680 nF	220 nF – 330 nF	100 nF – 150 nF
22.5 - 26 x 16 x 7	1.5 μF – 1.8 μF	820 nF – 1 μF	390 nF – 470 nF	180 nF – 220 nF
22.5 - 26 x 16 x 8		1.2 μF	560 nF	270 nF
22.5 - 26 x 17 x 8.5	2.2 μF			330 nF
22.5 - 26 x 18.5 x 9	2.7 μF – 3.3 μF	1.5 μF – 1.8 μF	680 nF – 820 nF	390 nF – 470 nF
22.5 - 26 x 18.5 x 10		2.2 μF		
22.5 - 26 x 20 x 11	3.9 μF		1 μF – 1.2 μF	560 nF
22.5 - 26 x 22 x 13	4.7 μF – 5.6 μF	2.7 μF – 3.3 μF	1.5 μF	680 nF – 820 nF
22.5 - 26 x 24.5 x 15.5	6.8 μF – 8.2 μF	3.9 μF – 5.6 μF	1.8 μF	1 μF – 1.2 μF

Single Metallized Polypropylene (cont.)

F461 – 464 Halogen-Free, 160 – 2,500 VDC/90 – 900 VAC (cont.)

Capacitance Range: 0.001 to 56 μ F • Temperature Range: -55°C to +105°C

www.kemet.com/F461



F	46x	K	E	223	J	160	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging
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 represent significant figures. Third digit specifies number of zeros.	J = $\pm 5\%$ K = $\pm 10\%$ Other tolerances on request	160 = 160 250 = 250 400 = 400 630 = 630 1K0 = 1,000 1L2 = 1,250 1K6 = 1,600 2K0 = 2,000 2K5 = 2,500	See Ordering Options Table

F461 (cont.)

Case Size	Voltage (VDC/VAC)			
	160/90	250/160	400/220	630/250
27.5 - 31.5 x 17 x 9	2.2 μ F – 3.3 μ F	1.5 μ F – 1.8 μ F	560 nF – 820 nF	330 nF – 470 nF
27.5 - 31.5 x 20 x 11	3.9 μ F – 4.7 μ F	2.2 μ F – 3.3 μ F	1 μ F – 1.5 μ F	560 nF – 820 nF
27.5 - 31.5 x 25 x 13	5.6 μ F – 8.2 μ F	3.9 μ F – 4.7 μ F	1.8 μ F – 2.2 μ F	1 μ F – 1.2 μ F
27.5 - 31.5 x 28 x 14		5.6 μ F	2.7 μ F	1.5 μ F
27.5 - 31.5 x 28 x 17.5	10 μ F – 12 μ F	6.8 μ F	3.3 μ F	1.8 μ F
27.5 - 31.5 x 29 x 19		8.2 μ F	3.9 μ F	2.2 μ F
27.5 - 31.5 x 37 x 22	15 μ F – 22 μ F	10 μ F – 15 μ F	4.7 μ F – 6.8 μ F	2.7 μ F – 3.9 μ F
37.5 - 41 x 22 x 11	6.8 μ F – 8.2 μ F	3.3 μ F – 4.7 μ F	1.5 μ F – 2.2 μ F	680 nF – 1.2 μ F
37.5 - 41 x 24 x 13	10 μ F	5.6 μ F – 6.8 μ F	2.7 μ F – 3.3 μ F	1.5 μ F – 1.8 μ F
37.5 - 41 x 26 x 15	12 μ F	8.2 μ F	3.9 μ F	2.2 μ F
37.5 - 41 x 28.5 x 16	15 μ F	10 μ F	4.7 μ F	2.7 μ F
37.5 - 41 x 32 x 19	18 μ F – 22 μ F	12 μ F – 15 μ F	5.6 μ F – 6.8 μ F	3.3 μ F
37.5 - 41 x 38 x 21	27 μ F	18 μ F	8.2 μ F	3.9 μ F – 4.7 μ F
37.5 - 41 x 44 x 24	33 μ F – 39 μ F	22 μ F – 27 μ F	10 μ F – 12 μ F	5.6 μ F – 6.8 μ F
37.5 - 41 x 45 x 30	47 μ F – 56 μ F	33 μ F – 39 μ F	15 μ F – 18 μ F	8.2 μ F

F462

Case Size	Voltage (VDC/VAC)		
	1,000/300	1,250/400	1,600/500
10 - 13 x 9 x 4	4.7 nF – 6.8 nF	3.3 nF – 5.6 nF	1 nF – 2.2 nF
10 - 13 x 11 x 5	8.2 nF – 12 nF	6.8 nF – 12 nF	2.7 nF – 4.7 nF
10 - 13 x 12 x 6	15 nF – 22 nF	15 nF	5.6 nF – 6.8 nF
15 - 18 x 10 x 4	10 nF – 15 nF	6.8 nF – 10 nF	3.3 nF – 5.6 nF
15 - 18 x 11 x 5	18 nF – 22 nF	12 nF – 15 nF	6.8 nF – 8.2 nF
15 - 18 x 12 x 6			12 nF
15 - 18 x 12.5 x 5.5	27 nF – 33 nF	18 nF – 22 nF	10 nF
15 - 18 x 13.5 x 7.5	39 nF – 56 nF	27 nF – 47 nF	15 nF – 22 nF
15 - 18 x 14.5 x 8.5	68 nF	56 nF	27 nF

Film Capacitors – DC Film

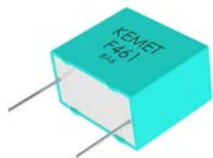
Pulse & High Frequency

Single Metallized Polypropylene (cont.)

F461 – 464 Halogen-Free, 160 – 2,500 VDC/90 – 900 VAC (cont.)

Capacitance Range: 0.001 to 56 μ F • Temperature Range: -55°C to +105°C

www.kemet.com/F461



F	46x	K	E	223	J	160	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging
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 represent significant figures. Third digit specifies number of zeros.	J = $\pm 5\%$ K = $\pm 10\%$ Other tolerances on request	160 = 160 250 = 250 400 = 400 630 = 630 1K0 = 1,000 1L2 = 1,250 1K6 = 1,600 2K0 = 2,000 2K5 = 2,500	See Ordering Options Table

F462 (cont.)

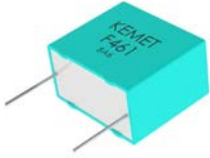
Case Size	Voltage (VDC/VAC)		
	1,000/300	1,250/400	1,600/500
15 - 18 x 16 x 10	82 nF – 100 nF	68 nF	33 nF
15 - 18 x 19 x 11	120 nF – 150 nF	82 nF – 120 nF	39 nF – 56 nF
22.5 - 26 x 14.5 x 6	47 nF – 68 nF	33 nF – 56 nF	15 nF – 27 nF
22.5 - 26 x 16 x 7	82 nF – 100 nF	68 nF – 82 nF	33 nF – 39 nF
22.5 - 26 x 16 x 8	120 nF		47 nF
22.5 - 26 x 17 x 8.5		100 nF	
22.5 - 26 x 18.5 x 9	150 nF	120 nF – 150 nF	56 nF
22.5 - 26 x 18.5 x 10	180 nF – 220 nF		68 nF
22.5 - 26 x 20 x 11		180 nF	82 nF – 100 nF
22.5 - 26 x 22 x 13	270 nF – 330 nF	220 nF	120 nF
22.5 - 26 x 24.5 x 15.5	390 nF – 560 nF	270 nF – 390 nF	150 nF – 180 nF
27.5 - 31.5 x 17 x 9	150 nF – 220 nF	100 nF – 150 nF	47 nF – 82 nF
27.5 - 31.5 x 20 x 11	270 nF – 330 nF	180 nF – 220 nF	100 nF – 120 nF
27.5 - 31.5 x 25 x 13	390 nF – 470 nF	270 nF – 390 nF	150 nF – 180 nF
27.5 - 31.5 x 28 x 14	560 nF – 680 nF	470 nF	220 nF
27.5 - 31.5 x 28 x 17.5	820 nF	560 nF	270 nF – 330 nF
27.5 - 31.5 x 29 x 19		680 nF	390 nF
27.5 - 31.5 x 37 x 22	1 μ F – 1.5 μ F	820 nF – 1.2 μ F	470 nF – 680 nF
37.5 - 41 x 22 x 11	330 nF – 560 nF	220 nF – 390 nF	150 nF – 220 nF
37.5 - 41 x 24 x 13	680 nF	470 nF – 560 nF	270 nF
37.5 - 41 x 26 x 15	820 nF	680 nF	330 nF
37.5 - 41 x 28.5 x 16	1 μ F	820 nF	390 nF – 470 nF
37.5 - 41 x 32 x 19	1.2 μ F – 1.5 μ F	1 μ F	560 nF
37.5 - 41 x 38 x 21	1.8 μ F – 2.2 μ F	1.2 μ F – 1.5 μ F	680 nF – 820 nF
37.5 - 41 x 44 x 24	2.7 μ F	1.8 μ F	1 μ F – 1.2 μ F
37.5 - 41 x 45 x 30	3.3 μ F – 3.9 μ F	2.2 μ F – 2.7 μ F	1.5 μ F

Single Metallized Polypropylene (cont.)

F461 – 464 Halogen-Free, 160 – 2,500 VDC/90 – 900 VAC (cont.)

Capacitance Range: 0.001 to 56 μ F • Temperature Range: -55°C to +105°C

www.kemet.com/F461



F	46x	K	E	223	J	160	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging
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 represent significant figures. Third digit specifies number of zeros.	J = $\pm 5\%$ K = $\pm 10\%$ Other tolerances on request	160 = 160 250 = 250 400 = 400 630 = 630 1K0 = 1,000 1L2 = 1,250 1K6 = 1,600 2K0 = 2,000 2K5 = 2,500	See Ordering Options Table

F463

Case Size	Voltage (VDC/VAC)		
	1,250/500	1,600/650	2,000/700
10 - 13 x 9 x 4			1 nF – 1.8 nF
10 - 13 x 11 x 5			2.2 nF – 3.3 nF
10 - 13 x 12 x 6			3.9 nF – 5.6 nF
15 - 18 x 10 x 4	4.7 nF – 6.8 nF	3.3 nF – 4.7 nF	1 nF – 2.2 nF
15 - 18 x 11 x 5	8.2 nF – 10 nF	5.6 nF – 6.8 nF	2.7 nF – 3.9 nF
15 - 18 x 12 x 6	15 nF	10 nF	
15 - 18 x 12.5 x 5.5	12 nF	8.2 nF	4.7 nF – 5.6 nF
15 - 18 x 13.5 x 7.5	18 nF – 27 nF	12 nF – 15 nF	6.8 nF – 10 nF
15 - 18 x 14.5 x 8.5	33 nF	18 nF – 22 nF	12 nF
15 - 18 x 16 x 10	39 nF – 47 nF	27 nF	15 nF
15 - 18 x 19 x 11	56 nF – 68 nF	33 nF – 47 nF	18 nF – 27 nF
22.5 - 26 x 14.5 x 6	22 nF – 39 nF	15 nF – 27 nF	10 nF – 12 nF
22.5 - 26 x 16 x 7	47 nF – 56 nF	33 nF – 39 nF	15 nF – 18 nF
22.5 - 26 x 16 x 8			22 nF
22.5 - 26 x 17 x 8.5	68 nF	47 nF	27 nF
22.5 - 26 x 18.5 x 9	82 nF	56 nF	
22.5 - 26 x 18.5 x 10	100 nF	68 nF	33 nF – 39 nF
22.5 - 26 x 20 x 11	120 nF	82 nF	47 nF
22.5 - 26 x 22 x 13	150 nF – 180 nF	100 nF – 120 nF	56 nF – 68 nF
22.5 - 26 x 24.5 x 15.5	220 nF – 270 nF	150 nF – 180 nF	82 nF – 100 nF
27.5 - 31.5 x 17 x 9	68 nF – 120 nF	47 nF – 82 nF	22 nF – 39 nF
27.5 - 31.5 x 20 x 11	150 nF – 180 nF	100 nF – 120 nF	47 nF – 68 nF
27.5 - 31.5 x 25 x 13	220 nF – 270 nF	150 nF – 180 nF	82 nF – 100 nF
27.5 - 31.5 x 28 x 14	330 nF	220 nF	120 nF
27.5 - 31.5 x 28 x 17.5	390 nF – 470 nF	270 nF	150 nF
27.5 - 31.5 x 29 x 19		330 nF	180 nF
27.5 - 31.5 x 37 x 22	560 nF – 820 nF	390 nF – 560 nF	220 nF – 330 nF
37.5 - 41 x 22 x 11	220 nF – 330 nF	150 nF – 220 nF	68 nF – 120 nF
37.5 - 41 x 24 x 13	390 nF	270 nF	150 nF

Film Capacitors – DC Film

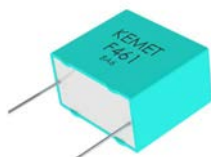
Pulse & High Frequency

Single Metallized Polypropylene (cont.)

F461 – 464 Halogen-Free, 160 – 2,500 VDC/90 – 900 VAC (cont.)

Capacitance Range: 0.001 to 56 μ F • Temperature Range: -55°C to +105°C

www.kemet.com/F461



F	46x	K	E	223	J	160	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging
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 represent significant figures. Third digit specifies number of zeros.	J = $\pm 5\%$ K = $\pm 10\%$ Other tolerances on request	160 = 160 250 = 250 400 = 400 630 = 630 1K0 = 1,000 1L2 = 1,250 1K6 = 1,600 2K0 = 2,000 2K5 = 2,500	See Ordering Options Table

F463 (cont.)

Case Size	Voltage (VDC/VAC)		
	1,250/500	1,600/650	2,000/700
37.5 - 41 x 26 x 15	470 nF	330 nF	180 nF
37.5 - 41 x 28.5 x 16	560 nF – 680 nF	390 nF	220 nF
37.5 - 41 x 32 x 19	820 nF	470 nF – 560 nF	270 nF – 330 nF
37.5 - 41 x 38 x 21	1 μ F – 1.2 μ F	680 nF – 820 nF	390 nF – 470 nF
37.5 - 41 x 44 x 24	1.5 μ F	1 μ F – 1.2 μ F	560 nF
37.5 - 41 x 45 x 30	1.8 μ F – 2.2 μ F	1.5 μ F	680 nF – 820 nF

F464

Case Size	Voltage (VDC/VAC)
	2,500/900
15 - 18 x 10 x 4	1 nF – 2.2 nF
15 - 18 x 11 x 5	2.7 nF – 3.3 nF
15 - 18 x 12.5 x 5.5	3.9 nF – 4.7 nF
15 - 18 x 13.5 x 7.5	5.6 nF – 8.2 nF
15 - 18 x 14.5 x 8.5	10 nF
15 - 18 x 16 x 10	12 nF – 15 nF
15 - 18 x 19 x 11	18 nF – 22 nF
22.5 - 26 x 14.5 x 6	4.7 nF – 8.2 nF
22.5 - 26 x 16 x 7	10 nF – 12 nF
22.5 - 26 x 17 x 8.5	15 nF
22.5 - 26 x 18.5 x 9	18 nF – 22 nF
22.5 - 26 x 18.5 x 10	22 nF
22.5 - 26 x 20 x 11	27 nF
22.5 - 26 x 22 x 13	33 nF
22.5 - 26 x 24.5 x 15.5	39 nF – 56 nF

Case Size	Voltage (VDC/VAC)
	2,500/900
27.5 - 31.5 x 17 x 9	15 nF – 27 nF
27.5 - 31.5 x 20 x 11	33 nF – 39 nF
27.5 - 31.5 x 25 x 13	47 nF – 68 nF
27.5 - 31.5 x 28 x 14	82 nF
27.5 - 31.5 x 28 x 17.5	100 nF
27.5 - 31.5 x 29 x 19	120 nF
27.5 - 31.5 x 37 x 22	150 nF – 180 nF
37.5 - 41 x 22 x 11	47 nF – 68 nF
37.5 - 41 x 24 x 13	82 nF – 100 nF
37.5 - 41 x 26 x 15	120 nF
37.5 - 41 x 28.5 x 16	150 nF
37.5 - 41 x 32 x 19	180 nF – 220 nF
37.5 - 41 x 38 x 21	270 nF
37.5 - 41 x 44 x 24	330 nF – 390 nF
37.5 - 41 x 45 x 30	470 nF – 560 nF

Double Metallized Polypropylene

R76 Radial, DC & Pulse Applications, Automotive Grade, 250 – 2,000 VDC/160 – 700 VAC

Capacitance Range: 100 pF to 15 µF • Temperature Range: -55°C to +105°C

www.kemet.com/R76



R76	I	D	1680	SE	30	K
Series	Rated Voltage (VDC)	Lead Spacing (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
Double Metallized Polypropylene	I = 250 M = 400 P = 630 Q = 1,000 T = 1,600 U = 2,000	D = 7.5 F = 10 I = 15 N = 22.5 R = 27.5 W = 37.5	The last three digits represent significant figures. The first digit specifies the total number of zeros to be added.	See Ordering Options Table	00 10 30 40 50 60 70 80	H = 2.5% J = ±5% K = ±10%

Case Size	Voltage (VDC/VAC)								
	250/160	250/180	400/250	630/250	630/400	1,000/400	1,000/600	1,600/650	2,000/700
7.5 - 10 x 8 x 3	6.8 nF – 10 nF	6.8 nF – 10 nF	2.7 nF – 5.6 nF	0.7 nF – 2.2 nF		0.2 nF – 0.6 nF			
7.5 - 10 x 9 x 4	12 nF – 22 nF	12 nF – 22 nF	6.8 nF – 12 nF	2.7 nF – 5.6 nF		0.7 nF – 1.2 nF			
7.5 - 10 x 10.5 x 5	27 nF – 33 nF	27 nF – 33 nF	15 nF – 18 nF	6.8 nF – 8.2 nF		1.5 nF – 2.2 nF			
7.5 - 10.5 x 12 x 6	39 nF – 47 nF	39 nF – 47 nF	22 nF – 27 nF	10 nF – 12 nF		2.7 nF – 3.3 nF			
10 - 13 x 9 x 4	27 nF – 39 nF	27 nF – 39 nF	10 nF – 22 nF		3.9 nF – 8.2 nF		0.5 nF – 3.3 nF		
10 - 13 x 11 x 5	47 nF – 56 nF	47 nF – 56 nF	27 nF – 33 nF		10 nF – 12 nF		3.9 nF – 4.7 nF		
10 - 13 x 12 x 6	68 nF – 82 nF	68 nF – 82 nF	39 nF – 47 nF		15 nF – 18 nF		5.6 nF – 6.8 nF		
15 - 18 x 10 x 4							8.2 nF – 10 nF	3.3 nF – 5.6 nF	0.1 nF – 2.7 nF
15 - 18 x 11 x 5	68 nF – 100 nF	68 nF – 100 nF	33 nF – 56 nF		12 nF – 27 nF		8.2 nF – 18 nF	3.3 nF – 10 nF	0.2 nF – 4.7 nF
15 - 18 x 12 x 6	120 nF – 150 nF	120 nF – 150 nF	68 nF – 82 nF		33 nF – 39 nF		22 nF	12 nF – 15 nF	5.6 nF – 8.2 nF
15 - 18 x 12 x 13	330 nF	330 nF	150 nF – 180 nF		82 nF		33 nF	22 nF	10 nF
15 - 18 x 12.5 x 9	180 nF – 270 nF	180 nF – 270 nF	100 nF – 120 nF		47 nF – 68 nF		22 nF – 27 nF	18 nF	
15 - 18 x 13.5 x 7.5	180 nF – 220 nF	180 nF – 220 nF	100 nF – 120 nF		47 nF – 56 nF		27 nF – 33 nF	18 nF – 22 nF	10 nF
15 - 18 x 14.5 x 8.5	270 nF	270 nF	150 nF		68 nF – 82 nF		39 nF – 47 nF	27 nF – 33 nF	12 nF – 15 nF
15 - 18 x 16 x 10	330 nF – 390 nF	330 nF – 390 nF	180 nF – 220 nF		100 nF				
15 - 18 x 19 x 11	470 nF	470 nF	270 nF		120 nF				
22.5 - 26.5 x 15 x 6	220 nF – 330 nF	220 nF – 330 nF	120 nF – 180 nF		47 nF – 100 nF		27 nF – 39 nF	15 nF – 33 nF	1 nF – 18 nF
22.5 - 26.5 x 16 x 7	390 nF – 470 nF	390 nF – 470 nF	220 nF		120 nF		47 nF – 56 nF	39 nF – 47 nF	22 nF – 27 nF
22.5 - 26.5 x 17 x 8.5	560 nF	560 nF	270 nF – 330 nF		150 nF – 180 nF		68 nF	56 nF	33 nF
22.5 - 26.5 x 18.5 x 10	680 nF – 820 nF	680 nF – 820 nF	390 nF – 470 nF		220 nF		82 nF – 100 nF	68 nF – 82 nF	39 nF – 47 nF
22.5 - 26.5 x 20 x 11	1 µF	1 µF	560 nF		270 nF – 330 nF		120 nF	100 nF	56 nF
22.5 - 26.5 x 22 x 13	1.2 µF	1.2 µF	680 nF		390 nF		150 nF		

Film Capacitors – DC Film

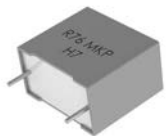
Pulse & High Frequency

Double Metallized Polypropylene (cont.)

R76 Radial, DC & Pulse Applications, Automotive Grade, 250 – 2,000 VDC/160 – 700 VAC (cont.)

Capacitance Range: 100 pF to 15 μ F • Temperature Range: -55°C to +105°C

www.kemet.com/R76



R76	I	D	1680	SE	30	K
Series	Rated Voltage (VDC)	Lead Spacing (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
Double Metallized Polypropylene	I = 250 M = 400 P = 630 Q = 1,000 T = 1,600 U = 2,000	D = 7.5 F = 10 I = 15 N = 22.5 R = 27.5 W = 37.5	The last three digits represent significant figures. The first digit specifies the total number of zeros to be added.	See Ordering Options Table	00 10 30 40 50 60 70 80	H = 2.5% J = $\pm 5\%$ K = $\pm 10\%$

Case Size	Voltage (VDC/VAC)						
	250/160	250/180	400/250	630/400	1,000/600	1,600/650	2,000/700
27.5 - 32 x 17 x 9	820 nF	820 nF	390 nF – 470 nF	150 nF – 270 nF	100 nF – 120 nF	39 nF – 68 nF	22 nF – 33 nF
27.5 - 32 x 20 x 11	1 μ F – 1.2 μ F	1 μ F – 1.2 μ F	560 nF – 680 nF	330 nF – 390 nF	150 nF	82 nF – 100 nF	39 nF – 47 nF
27.5 - 32 x 22 x 13	1.5 μ F	1.5 μ F	820 nF – 1 μ F	470 nF – 560 nF	180 nF – 220 nF	120 nF	56 nF – 68 nF
27.5 - 32 x 25 x 13		1.8 μ F		680 nF	270 nF	150 nF	82 nF
27.5 - 32 x 28 x 14	2.2 μ F	2.2 μ F	1.2 μ F	820 nF	330 nF	180 nF	100 nF
27.5 - 32 x 33 x 18	2.7 μ F – 3.9 μ F	2.7 μ F – 3.9 μ F	1.5 μ F – 1.8 μ F	1 μ F – 1.2 μ F	390 nF – 470 nF	220 nF – 330 nF	120 nF – 150 nF
27.5 - 32 x 37 x 22	4.7 μ F – 5.6 μ F	4.7 μ F – 5.6 μ F	2.2 μ F – 2.7 μ F	1.5 μ F – 1.8 μ F	560 nF – 680 nF	390 nF – 470 nF	180 nF – 220 nF
37.5 - 41.5 x 22 x 11	1.2 μ F – 1.8 μ F	1.2 μ F – 1.8 μ F	1 μ F	330 nF – 680 nF	180 nF – 220 nF	82 nF – 150 nF	33 nF – 82 nF
37.5 - 41.5 x 24 x 13	2.2 μ F	2.2 μ F	1.2 μ F – 1.5 μ F	820 nF	270 nF – 330 nF	180 nF – 270 nF	100 nF – 120 nF
37.5 - 41.5 x 28.5 x 16	3.3 μ F – 3.9 μ F	2.7 μ F – 3.9 μ F	1.8 μ F	1 μ F – 1.5 μ F	390 nF – 560 nF	330 nF – 390 nF	150 nF – 180 nF
37.5 - 41.5 x 32 x 19	4.7 μ F	4.7 μ F	2.2 μ F – 3.3 μ F	1.8 μ F	680 nF	470 nF	220 nF
37.5 - 41.5 x 40 x 20	6.8 μ F	5.6 μ F – 6.8 μ F	3.9 μ F – 4.7 μ F	2.2 μ F – 2.7 μ F	820 nF – 1 μ F	560 nF – 680 nF	270 nF – 330 nF
37.5 - 41.5 x 44 x 24	10 μ F	8.2 μ F – 10 μ F	5.6 μ F	3.3 μ F	1.2 μ F – 1.5 μ F	820 nF – 1 μ F	390 nF – 470 nF
37.5 - 41.5 x 45 x 30	12 μ F	12 μ F	6.8 μ F – 8.2 μ F	3.9 μ F – 4.7 μ F	1.8 μ F – 2.2 μ F	1.2 μ F	560 nF – 680 nF

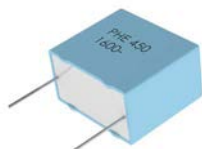
Double Metallized Polypropylene (cont.)

PHE450 Radial, 250 – 3,000 VDC/180 – 1,000 VAC

Capacitance Range: 0.00033 to 10 μ F • Temperature Range: -55°C to +105°C

www.kemet.com/PHE450

Legacy Part Number System



PHE450	P	B	5180	J	B04	R06
Series	Rated Voltage (VDC)	Lead Spacing (mm)	Capacitance Code (pF)	Capacitance Tolerance	Optional Box Code	Packaging
Metallized Polypropylene	H = 250 K = 400 M = 630 P = 1,000 R = 1,600 S = 2,000 T = 2,500 X = 3,000	K = 7.5 A = 10.0 B = 15.0 D = 22.5 F = 27.5 R = 37.5	The last three digits represent significant figures. First digit specifies the number of zeros to be added.	J = $\pm$ 5% Other tolerances on request	See Dimension Table	See Ordering Options Table

New KEMET Part Number System

F	450	B	D	183	J	1K0	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging
F = Film	Metallized Polypropylene	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% Other tolerances on request	250 = 250 400 = 400 630 = 630 1K0 = 1,000 1K6 = 1,600 2K0 = 2,000 2K5 = 2,500 3K0 = 3,000	See Ordering Options Table

Case Size	Voltage (VDC/VAC)					
	250/180	400/250	630/300	630/400	1,000/375	1,000/600
7.5 - 10 x 8 x 4	0.3 nF – 22 nF	0.3 nF – 12 nF	0.4 nF – 8.2 nF		0.3 nF – 2.2 nF	2.7 nF – 3.9 nF
7.5 - 10 x 11 x 5	27 nF – 56 nF	15 nF – 33 nF	10 nF – 18 nF			4.7 nF – 8.2 nF
7.5 - 10.5 x 12 x 6	68 nF	39 nF – 47 nF	22 nF			10 nF – 12 nF
7.5 - 18 x 10.5 x 5.5	47 nF – 120 nF	33 nF – 68 nF		10 nF – 33 nF		3.9 nF – 22 nF
7.5 - 18 x 12.5 x 5.5	150 nF	82 nF		39 nF		27 nF
7.5 - 18 x 12.5 x 6.5	180 nF	100 nF		47 nF – 56 nF		33 nF
7.5 - 18 x 14.5 x 7.5	220 nF – 270 nF	120 nF – 150 nF		68 nF		39 nF – 47 nF
7.5 - 18 x 15 x 8	330 nF	180 nF		82 nF		56 nF
7.5 - 18 x 16 x 8.5	390 nF			100 nF		68 nF
7.5 - 18 x 17.5 x 9.5	470 nF	220 nF – 270 nF		120 nF – 150 nF		82 nF
7.5 - 18 x 19 x 11						100 nF – 120 nF
10 - 13 x 9 x 4	1 nF – 47 nF	1 nF – 27 nF	1 nF – 15 nF			1 nF – 6.8 nF
10 - 13 x 10.5 x 4.5	56 nF – 68 nF	33 nF	18 nF – 22 nF			8.2 nF – 10 nF
10 - 13 x 11 x 5	82 nF	39 nF	27 nF			12 nF
10 - 13 x 12 x 6	100 nF – 120 nF	47 nF – 56 nF	33 nF – 39 nF			15 nF – 18 nF
15 - 18 x 10.5 x 5.5	47 nF – 120 nF	33 nF – 68 nF		10 nF – 33 nF		3.9 nF – 22 nF
15 - 18 x 12.5 x 5.5	150 nF	82 nF		39 nF		27 nF
15 - 18 x 12.5 x 6.5	180 nF	100 nF		47 nF – 56 nF		33 nF
15 - 18 x 14.5 x 7.5	220 nF – 270 nF	120 nF – 150 nF		68 nF		39 nF – 47 nF
15 - 18 x 15 x 8	330 nF	180 nF		82 nF		56 nF
15 - 18 x 16 x 8.5	390 nF			100 nF		68 nF
15 - 18 x 17.5 x 9.5	470 nF	220 nF – 270 nF		120 nF – 150 nF		82 nF
15 - 18 x 19 x 11						100 nF – 120 nF

Film Capacitors – DC Film

Pulse & High Frequency

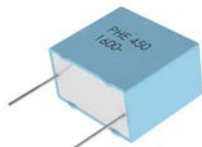
Double Metallized Polypropylene (cont.)

PHE450 Radial, 250 – 3,000 VDC/180 – 1,000 VAC (cont.)

Capacitance Range: 0.00033 to 10 μ F • Temperature Range: -55°C to +105°C

www.kemet.com/PHE450

Legacy Part Number System



PHE450	P	B	5180	J	B04	R06
Series	Rated Voltage (VDC)	Lead Spacing (mm)	Capacitance Code (pF)	Capacitance Tolerance	Optional Box Code	Packaging
Metallized Polypropylene	H = 250 K = 400 M = 630 P = 1,000 R = 1,600 S = 2,000 T = 2,500 X = 3,000	K = 7.5 A = 10.0 B = 15.0 D = 22.5 F = 27.5 R = 37.5	The last three digits represent significant figures. First digit specifies the number of zeros to be added.	J = $\pm$ 5% Other tolerances on request	See Dimension Table	See Ordering Options Table

New KEMET Part Number System

F	450	B	D	183	J	1K0	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging
F = Film	Metallized Polypropylene	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% Other tolerances on request	250 = 250 400 = 400 630 = 630 1K0 = 1,000 1K6 = 1,600 2K0 = 2,000 2K5 = 2,500 3K0 = 3,000	See Ordering Options Table

Case Size	Voltage (VDC/VAC)			
	250/180	400/250	630/400	1,000/600
22.5 - 26 x 14.5 x 6.5	180 nF – 330 nF	120 nF – 180 nF	33 nF – 100 nF	22 nF – 82 nF
22.5 - 26 x 16 x 8				120 nF
22.5 - 26 x 16.5 x 7	390 nF – 470 nF	220 nF – 270 nF	120 nF – 150 nF	100 nF
22.5 - 26 x 18.5 x 9	560 nF – 680 nF	330 nF – 390 nF	180 nF – 220 nF	150 nF
22.5 - 26 x 19 x 10.5	820 nF	470 nF		180 nF
22.5 - 26 x 21.5 x 11	1 μ F	560 nF	270 nF – 330 nF	220 nF
22.5 - 26 x 23 x 13.5	1.2 μ F – 1.5 μ F	680 nF – 820 nF	390 nF – 470 nF	270 nF – 330 nF
22.5 - 26 x 24.5 x 15.5	1.8 μ F	1 μ F	560 nF	390 nF
27.5 - 26 x 14.5 x 6.5	180 nF			
27.5 - 31.5 x 12.5 x 21	1.2 μ F	680 nF	390 nF	220 nF
27.5 - 31.5 x 16 x 27.5	2.2 μ F	1.5 μ F	820 nF	470 nF
27.5 - 31.5 x 19 x 31	3.9 μ F	2.2 μ F	1.2 μ F	680 nF
27.5 - 31.5 x 20.5 x 10.5	820 nF – 1.2 μ F	470 nF – 680 nF	220 nF – 390 nF	150 nF – 270 nF
27.5 - 31.5 x 22.5 x 11.5	1.5 μ F	820 nF	470 nF	330 nF
27.5 - 31.5 x 23 x 13.5	1.8 μ F	1 μ F	560 nF	390 nF
27.5 - 31.5 x 24.5 x 14.5	2.2 μ F	1.2 μ F	680 nF	470 nF
27.5 - 31.5 x 28 x 17.5	2.7 μ F	1.5 μ F	820 nF – 1 μ F	560 nF – 680 nF
27.5 - 31.5 x 29 x 19	3.3 μ F	1.8 μ F		820 nF
27.5 - 31.5 x 30 x 21	3.9 μ F	2.2 μ F	1.2 μ F	1 μ F

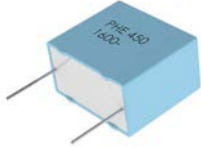
Double Metallized Polypropylene (cont.)

PHE450 Radial, 250 – 3,000 VDC/180 – 1,000 VAC (cont.)

Capacitance Range: 0.00033 to 10 μ F • Temperature Range: -55°C to +105°C

www.kemet.com/PHE450

Legacy Part Number System



PHE450	P	B	5180	J	B04	R06
Series	Rated Voltage (VDC)	Lead Spacing (mm)	Capacitance Code (pF)	Capacitance Tolerance	Optional Box Code	Packaging
Metallized Polypropylene	H = 250 K = 400 M = 630 P = 1,000 R = 1,600 S = 2,000 T = 2,500 X = 3,000	K = 7.5 A = 10.0 B = 15.0 D = 22.5 F = 27.5 R = 37.5	The last three digits represent significant figures. First digit specifies the number of zeros to be added.	J = $\pm$ 5% Other tolerances on request	See Dimension Table	See Ordering Options Table

New KEMET Part Number System

F	450	B	D	183	J	1K0	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging
F = Film	Metallized Polypropylene	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% Other tolerances on request	250 = 250 400 = 400 630 = 630 1K0 = 1,000 1K6 = 1,600 2K0 = 2,000 2K5 = 2,500 3K0 = 3,000	See Ordering Options Table

Case Size	Voltage (VDC/VAC)			
	250/180	400/250	630/400	1,000/600
37.5 - 41 x 24 x 13	1.8 μ F – 2.7 μ F	1 μ F – 1.5 μ F	560 nF – 820 nF	330 nF – 560 nF
37.5 - 41 x 26 x 15	3.3 μ F	1.8 μ F	1 μ F – 1.2 μ F	680 nF
37.5 - 41 x 32 x 16.5	3.9 μ F – 4.7 μ F	2.2 μ F – 2.7 μ F	1.5 μ F	820 nF – 1 μ F
37.5 - 41 x 36 x 19	5.6 μ F	3.3 μ F – 3.9 μ F	1.8 μ F – 2.2 μ F	1.2 μ F – 1.5 μ F
37.5 - 41 x 38 x 21	6.8 μ F	4.7 μ F	2.7 μ F	1.8 μ F
37.5 - 41 x 43 x 28	8.2 μ F – 10 μ F	5.6 μ F	3.3 μ F	2.2 μ F

Case Size	Voltage (VDC/VAC)			
	1,600/650	2,000/700	2,500/900	3,000/1,000
7.5 - 18 x 10.5 x 5.5	2.7 nF – 12 nF	1 nF – 6.8 nF	1 nF – 1.8 nF	1 nF – 1.2 nF
7.5 - 18 x 12.5 x 5.5	15 nF	8.2 nF	2.2 nF	1.5 nF – 1.8 nF
7.5 - 18 x 12.5 x 6.5	18 nF – 22 nF	10 nF	2.7 nF	2.2 nF
7.5 - 18 x 14.5 x 7.5	27 nF	12 nF – 15 nF	3.3 nF – 3.9 nF	2.7 nF
7.5 - 18 x 15 x 8	33 nF	18 nF	4.7 nF	3.3 nF
7.5 - 18 x 16 x 8.5	39 nF	22 nF	5.6 nF	3.9 nF
7.5 - 18 x 17.5 x 9.5	47 nF – 56 nF	27 nF	6.8 nF – 8.2 nF	4.7 nF – 5.6 nF
7.5 - 18 x 19 x 11			10 nF	6.8 nF

Film Capacitors – DC Film

Pulse & High Frequency

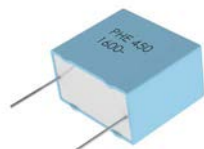
Double Metallized Polypropylene (cont.)

PHE450 Radial, 250 – 3,000 VDC/180 – 1,000 VAC (cont.)

Capacitance Range: 0.00033 to 10 μ F • Temperature Range: -55°C to +105°C

www.kemet.com/PHE450

Legacy Part Number System



PHE450	P	B	5180	J	B04	R06
Series	Rated Voltage (VDC)	Lead Spacing (mm)	Capacitance Code (pF)	Capacitance Tolerance	Optional Box Code	Packaging
Metallized Polypropylene	H = 250 K = 400 M = 630 P = 1,000 R = 1,600 S = 2,000 T = 2,500 X = 3,000	K = 7.5 A = 10.0 B = 15.0 D = 22.5 F = 27.5 R = 37.5	The last three digits represent significant figures. First digit specifies the number of zeros to be added.	J = $\pm$ 5% Other tolerances on request	See Dimension Table	See Ordering Options Table

New KEMET Part Number System

F	450	B	D	183	J	1K0	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging
F = Film	Metallized Polypropylene	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% Other tolerances on request	250 = 250 400 = 400 630 = 630 1K0 = 1,000 1K6 = 1,600 2K0 = 2,000 2K5 = 2,500 3K0 = 3,000	See Ordering Options Table

Case Size	Voltage (VDC/VAC)			
	1,600/650	2,000/700	2,500/900	3,000/1,000
15 - 18 x 10.5 x 5.5	2.7 nF – 12 nF	1 nF – 6.8 nF	1 nF – 1.8 nF	
15 - 18 x 12.5 x 5.5	15 nF	8.2 nF	2.2 nF	
15 - 18 x 12.5 x 6.5	18 nF – 22 nF	10 nF	2.7 nF	
15 - 18 x 14.5 x 7.5	27 nF	12 nF – 15 nF	3.3 nF – 3.9 nF	
15 - 18 x 15 x 8	33 nF	18 nF	4.7 nF	
15 - 18 x 16 x 8.5	39 nF	22 nF	5.6 nF	
15 - 18 x 17.5 x 9.5	47 nF – 56 nF	27 nF	6.8 nF – 8.2 nF	
15 - 18 x 19 x 11			10 nF	
22.5 - 26 x 14.5 x 6.5	10 nF – 39 nF	3.3 nF – 22 nF	4.7 nF – 8.2 nF	4.7 nF – 5.6 nF
22.5 - 26 x 16 x 8		39 nF	12 nF	8.2 nF
22.5 - 26 x 16.5 x 7	47 nF – 56 nF	27 nF – 33 nF	10 nF	6.8 nF
22.5 - 26 x 18.5 x 9	68 nF – 82 nF	47 nF	15 nF – 18 nF	10 nF
22.5 - 26 x 19 x 10.5	100 nF	56 nF	22 nF	12 nF
22.5 - 26 x 21.5 x 11	120 nF	68 nF – 82 nF	27 nF	15 nF – 18 nF
22.5 - 26 x 23 x 13.5	150 nF – 180 nF	100 nF	33 nF – 39 nF	22 nF
22.5 - 26 x 24.5 x 15.5	220 nF	120 nF	47 nF	27 nF – 33 nF

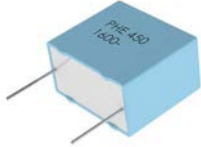
Double Metallized Polypropylene (cont.)

PHE450 Radial, 250 – 3,000 VDC/180 – 1,000 VAC (cont.)

Capacitance Range: 0.00033 to 10 μ F • Temperature Range: -55°C to +105°C

www.kemet.com/PHE450

Legacy Part Number System



PHE450	P	B	5180	J	B04	R06
Series	Rated Voltage (VDC)	Lead Spacing (mm)	Capacitance Code (pF)	Capacitance Tolerance	Optional Box Code	Packaging
Metallized Polypropylene	H = 250 K = 400 M = 630 P = 1,000 R = 1,600 S = 2,000 T = 2,500 X = 3,000	K = 7.5 A = 10.0 B = 15.0 D = 22.5 F = 27.5 R = 37.5	The last three digits represent significant figures. First digit specifies the number of zeros to be added.	J = $\pm$ 5% Other tolerances on request	See Dimension Table	See Ordering Options Table

New KEMET Part Number System

F	450	B	D	183	J	1K0	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging
F = Film	Metallized Polypropylene	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% Other tolerances on request	250 = 250 400 = 400 630 = 630 1K0 = 1,000 1K6 = 1,600 2K0 = 2,000 2K5 = 2,500 3K0 = 3,000	See Ordering Options Table

Case Size	Voltage (VDC/VAC)		
	1,600/650	2,000/700	2,500/900
27.5 - 31.5 x 12.5 x 21	100 nF	56 nF	
27.5 - 31.5 x 16 x 27.5	220 nF	120 nF	
27.5 - 31.5 x 19 x 31	330 nF	180 nF	
27.5 - 31.5 x 20.5 x 10.5	82 nF – 120 nF	47 nF – 82 nF	27 nF – 33 nF
27.5 - 31.5 x 22.5 x 11.5	150 nF	100 nF	39 nF
27.5 - 31.5 x 23 x 13.5	180 nF	120 nF	47 nF – 56 nF
27.5 - 31.5 x 24.5 x 14.5	220 nF	150 nF	68 nF
27.5 - 31.5 x 28 x 17.5	270 nF	180 nF	27 nF
27.5 - 31.5 x 29 x 19	330 nF	220 nF	100 nF
27.5 - 31.5 x 30 x 21	390 nF	270 nF	120 nF
37.5 - 41 x 24 x 13	180 nF – 270 nF	100 nF – 180 nF	68 nF – 82 nF
37.5 - 41 x 26 x 15	330 nF	220 nF	100 nF – 120 nF
37.5 - 41 x 32 x 16.5	390 nF – 560 nF	270 nF – 330 nF	150 nF
37.5 - 41 x 36 x 19	680 nF	390 nF – 470 nF	180 nF – 220 nF
37.5 - 41 x 38 x 21	820 nF	560 nF	220 nF – 270 nF
37.5 - 41 x 43 x 28	1 μ F	680 nF	330 nF

Film Capacitors – DC Film

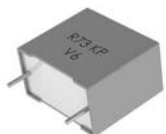
Pulse & High Frequency

Film/Foil Polypropylene

R73 Radial, Automotive Grade, 100 – 2,000 VDC/63 – 500 VAC

Capacitance Range: 100 pF to 2.2 µF • Temperature Range: -55°C to +105°C

www.kemet.com/R73



R73	E	I	2470	AA	00	H
Series	Rated Voltage (VDC)	Lead Spacing (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
Polypropylene Film/Foil	E = 100 G = 160 I = 250 M = 400 P = 630 Q = 1000 R = 1250 T = 1600 U = 2000	I = 15.0 N = 22.5 R = 27.5 W = 37.5	The last three digits represent significant figures. The first digit specifies the total number of zeros to be added.	See Ordering Options Table	00, 10, 30, 40 (Standard)	H = ±2.5% (for 2-section construction only) J = ±5% K = ±10%

Case Size	Voltage (VDC/VAC)								
	100/63	160/90	250/125	400/160	630/300	1,000/400	1,250/450	1,600/450	2,000/500
15 - 18 x 11 x 5	47 nF	33 nF	15 nF	10 nF	10 nF – 12 nF	3.3 nF – 8.2 nF	2.2 nF – 2.7 nF	1 nF – 1.8 nF	0.1 nF – 0.7 nF
15 - 18 x 12 x 6	68 nF	47 nF	22 nF	15 nF	15 nF – 18 nF	10 nF – 12 nF	3.3 nF – 3.9 nF	2.2 nF – 2.7 nF	1 nF – 1.2 nF
15 - 18 x 13.5 x 7.5	100 nF	68 nF	33 nF	22 nF	22 nF – 27 nF	15 nF	4.7 nF – 5.6 nF	3.3 nF – 3.9 nF	1.5 nF – 1.8 nF
15 - 18 x 14.5 x 8.5				33 nF	33 nF	18 nF – 22 nF	6.8 nF	4.7 nF	2.2 nF
15 - 18 x 16 x 10	150 nF	100 nF	47 nF	47 nF	39 nF – 47 nF	27 nF	8.2 nF	5.6 nF – 6.8 nF	2.7 nF
22.5 - 26.5 x 15 x 6					39 nF	15 nF – 22 nF	8.2 nF – 12 nF	5.6 nF – 10 nF	2.7 nF – 3.9 nF
22.5 - 26.5 x 16 x 7					47 nF – 56 nF	27 nF – 33 nF	15 nF – 18 nF	12 nF	4.7 nF – 5.6 nF
22.5 - 26.5 x 17 x 8.5					68 nF	39 nF	22 nF	15 nF – 18 nF	6.8 nF – 8.2 nF
22.5 - 26.5 x 18.5 x 10					82 nF – 100 nF	47 nF – 56 nF	27 nF – 33 nF	22 nF	10 nF
22.5 - 26.5 x 20 x 11						68 nF			12 nF
27.5 - 32 x 17 x 9					100 nF – 120 nF	47 nF – 82 nF	39 nF	27 nF	10 nF – 12 nF
27.5 - 32 x 20 x 11					150 nF – 180 nF	82 nF – 120 nF	47 nF – 56 nF	33 nF – 39 nF	15 nF
27.5 - 32 x 22 x 13					180 nF – 220 nF	120 nF – 150 nF	68 nF	47 nF – 56 nF	18 nF – 22 nF
27.5 - 32 x 25 x 13					270 nF	180 nF	82 nF – 100 nF		
27.5 - 32 x 28 x 14					330 nF – 390 nF	220 nF	120 nF	68 nF – 82 nF	27 nF – 33 nF
27.5 - 32 x 33 x 18					390 nF – 560 nF	270 nF – 330 nF	120 nF – 180 nF	100 nF – 120 nF	33 nF – 47 nF
27.5 - 32 x 37 x 22					560 nF – 820 nF	470 nF	220 nF	150 nF – 180 nF	56 nF – 68 nF
37.5 - 41.5 x 22 x 11					220 nF – 330 nF	120 nF – 180 nF	82 nF – 120 nF	33 nF – 82 nF	18 nF – 27 nF
37.5 - 41.5 x 24 x 13					330 nF – 470 nF	220 nF – 270 nF	120 nF – 180 nF	100 nF	33 nF – 39 nF
37.5 - 41.5 x 28.5 x 16					470 nF – 680 nF	270 nF – 390 nF	180 nF – 270 nF	120 nF – 180 nF	47 nF – 68 nF
37.5 - 41.5 x 32 x 19					820 nF	470 nF – 560 nF	330 nF	220 nF	82 nF
37.5 - 41.5 x 40 x 20					1 µF – 1.2 µF	680 nF – 820 nF	390 nF – 560 nF	270 nF – 330 nF	100 nF – 120 nF
37.5 - 41.5 x 44 x 24					1.5 µF	1 µF	680 nF	390 nF – 560 nF	150 nF
37.5 - 41.5 x 45 x 30					1.8 µF – 2.2 µF	1.2 µF – 1.5 µF	820 nF	470 nF – 560 nF	180 nF – 220 nF

Film/Foil Polypropylene (cont.)

A72 Axial, 100 – 2,000 VDC/63 – 500 VAC

Capacitance Range: 47 pF to 0.33 μ F • Temperature Range: -55°C to +105°C

www.kemet.com/A72



A72	E	F	1470	AA	00	J
Series	Rated Voltage (VDC)	Length (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
Polypropylene Film/Foil	E = 100 I = 250 M = 400 P = 630 Q = 1000 S = 1500 U = 2000	F = 11 H = 14 K = 20.5 Q = 28 T = 33	The last three digits represent significant figures. The first digit specifies the total number of zeros to be added.	See Ordering Options Table	00, 02 (Standard)	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$

Case Size	Voltage (VDC/VAC)						
	100/63	250/125	400/160	630/300	1,000/400	1,500/450	2,000/500
5 x 11	4.7 nF – 10 nF	2.2 nF – 3.3 nF	0 nF – 1.5 nF				
6.5 x 16.5			2.2 nF – 3.3 nF				
7 x 16.5		4.7 nF – 6.8 nF	4.7 nF				
7.5 x 16.5		10 nF					
8 x 16.5			6.8 nF				
8 x 20.5						2.2 nF	
8 x 28					6.8 nF		
8.5 x 16.5		15 nF					
8.5 x 20.5				15 nF	3.3 nF		1 nF
8.5 x 28					10 nF	4.7 nF – 6.8 nF	
9 x 16.5			10 nF				
9 x 28				33 nF			3.3 nF
9.5 x 20.5				22 nF	4.7 nF	3.3 nF	1.5 nF
9.5 x 28						10 nF	4.7 nF
10 x 28				47 nF	15 nF		
11 x 20.5							2.2 nF
11 x 28					22 nF	15 nF	6.8 nF
11.5 x 28				68 nF			
12.5 x 28						22 nF	
13 x 28					33 nF		10 nF
13.5 x 28				100 nF			
13.5 x 33						33 nF	15 nF
14 x 33				150 nF	47 nF		
16 x 33					68 nF	47 nF	22 nF
16.5 x 33				220 nF			
18 x 33						68 nF	
19 x 33					100 nF		
19.5 x 33				330 nF			
20 x 33							33 nF
22.5 x 33							47 nF

Film Capacitors – DC Film

General Purpose – Through-Hole

Metallized Polyester (PET)

R60 Radial, Polyester, +105°C, 10 – 37.5 mm Lead Spacing, Automotive Grade, 63 – 1,000 VDC/40 – 250 VAC

Capacitance Range: 0.001 to 150 µF • Temperature Range: -55°C to +105°C

www.kemet.com/R60



R60	M	F	2470	AA	60	K
Series	Rated Voltage (VDC)	Length (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
Metallized Polyester	C = 50 D = 63 E = 100 G = 160 I = 250 M = 400 P = 630 Q = 1,000	F = 10 I = 15 N = 22.5 R = 27.5 W = 37.5	The last three digits represent significant figures. First digit specifies the number of zeros to be added.	See Ordering Options Table	00 01 30 40 50 6A L0 L1	J = ±5% K = ±10% M = ±20%

Wound

Case Size	Voltage						
	63/40	100/63	160/90	250/160	400/200	630/220	1,000/250
10 - 13 x 9 x 4						4.7 nF – 22 nF	1 nF – 3.3 nF
10 - 13 x 11 x 5						22 nF – 47 nF	4.7 nF
10 - 13 x 12 x 6						33 nF – 47 nF	6.8 nF
15 - 18 x 11 x 5	680 nF – 1.5 µF	330 nF – 1 µF	330 nF – 680 nF	100 nF – 330 nF	22 nF – 220 nF	33 nF – 68 nF	10 nF – 15 nF
15 - 18 x 12 x 6	2.2 µF			470 nF	220 nF	68 nF – 100 nF	22 nF
15 - 18 x 12 x 13	4.7 µF	3.3 µF	2.2 µF	1 µF	470 nF – 680 nF		47 nF
15 - 18 x 12.5 x 9	3.3 µF	2.2 µF	1.5 µF	680 nF	330 nF – 470 nF	100 nF	33 nF
15 - 18 x 13.5 x 7.5	3.3 µF	1.5 µF	1 µF	680 nF	330 nF – 470 nF	100 nF – 150 nF	33 nF
15 - 18 x 14.5 x 8.5	4.7 µF	2.2 µF	1.5 µF	1 µF	470 nF	150 nF – 220 nF	
15 - 18 x 16 x 10	6.8 µF	3.3 µF	2.2 µF	1.5 µF	680 nF	220 nF – 330 nF	47 nF
15 - 18 x 19 x 11		4.7 µF	3.3 µF		680 nF – 1 µF		68 nF
22.5 - 26.5 x 15 x 6	3.3 µF	1.5 µF – 2.2 µF	1.5 µF	470 nF – 1 µF	220 nF – 680 nF	100 nF – 220 nF	33 nF – 47 nF
22.5 - 26.5 x 16 x 7	4.7 µF – 6.8 µF	3.3 µF	2.2 µF	1.5 µF	680 nF	220 nF – 330 nF	68 nF
22.5 - 26.5 x 17 x 8.5	10 µF	4.7 µF	3.3 µF		1 µF	330 nF	100 nF
22.5 - 26.5 x 18.5 x 10		6.8 µF		2.2 µF	1 µF – 1.5 µF	330 nF – 470 nF	
22.5 - 26.5 x 20 x 11	15 µF		4.7 µF	3.3 µF	1.5 µF	470 nF – 680 nF	
22.5 - 26.5 x 22 x 13		10 µF	6.8 µF		2.2 µF	680 nF	150 nF
27.5 - 32 x 12 x 13	4.7 µF – 6.8 µF	4.7 µF – 6.8 µF	3.3 µF – 6.8 µF	1.5 µF – 3.3 µF	1 µF	330 nF – 470 nF	
27.5 - 32 x 15 x 24	15 µF – 22 µF	15 µF – 22 µF	10 µF – 22 µF	4.7 µF – 10 µF	2.2 µF – 3.3 µF	680 nF – 1.5 µF	330 nF – 470 nF
27.5 - 32 x 17 x 9	10 µF	4.7 µF – 10 µF	3.3 µF – 10 µF	1.5 µF – 4.7 µF	680 nF – 1.5 µF	330 nF – 470 nF	150 nF – 220 nF
27.5 - 32 x 20 x 11	15 µF – 22 µF	15 µF	15 µF	6.8 µF	2.2 µF	680 nF – 1 µF	330 nF
27.5 - 32 x 22 x 13	22 µF	22 µF	22 µF	10 µF	3.3 µF		470 nF
27.5 - 32 x 28 x 14		33 µF	33 µF	15 µF	4.7 µF		680 nF
27.5 - 32 x 33 x 18	33 µF		47 µF	22 µF	6.8 µF	1.5 µF – 2.2 µF	1 µF
27.5 - 32 x 37 x 22	47 µF – 68 µF	47 µF – 68 µF	68 µF	33 µF	10 µF	3.3 µF – 4.7 µF	1.5 µF
37.5 - 41.5 x 15 x 24	22 µF – 33 µF	22 µF – 33 µF	15 µF – 33 µF	10 µF – 15 µF	3.3 µF – 6.8 µF	1.5 µF – 2.2 µF	680 nF – 1 µF
37.5 - 41.5 x 19 x 24	47 µF	47 µF	47 µF			3.3 µF	
37.5 - 41.5 x 22 x 11	22 µF	15 µF – 22 µF	10 µF – 22 µF	4.7 µF – 10 µF	3.3 µF – 4.7 µF	1 µF – 1.5 µF	470 nF – 680 nF
37.5 - 41.5 x 24 x 13	33 µF	33 µF	33 µF	15 µF	6.8 µF	2.2 µF	
37.5 - 41.5 x 28.5 x 16	47 µF	47 µF	47 µF	22 µF	10 µF	3.3 µF	1 µF
37.5 - 41.5 x 32 x 19	68 µF	68 µF	68 µF	33 µF		4.7 µF	1.5 µF
37.5 - 41.5 x 40 x 20	100 µF	100 µF	100 µF	47 µF		6.8 µF	2.2 µF
37.5 - 41.5 x 44 x 24	100 µF	100 µF		68 µF	15 µF – 22 µF	10 µF	3.3 µF
37.5 - 41.5 x 45 x 30		150 µF	150 µF		33 µF		4.7 µF

Metallized Polyester (PET) (cont.)

R60 Radial, Polyester, +105°C, 10 – 37.5 mm Lead Spacing, Automotive Grade, 50 – 1,000 VDC/40 – 250 VAC

Capacitance Range: 0.001 to 150 μ F • Temperature Range: -55°C to +105°C

www.kemet.com/R60



R60	M	F	2470	AA	60	K
Series	Rated Voltage (VDC)	Length (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
Metallized Polyester	C = 50 D = 63 E = 100 G = 160 I = 250 M = 400 P = 630 Q = 1,000	F = 10 I = 15 N = 22.5 R = 27.5 W = 37.5	The last three digits represent significant figures. First digit specifies the number of zeros to be added.	See Ordering Options Table	00 01 30 40 50 6A L0 L1	J = $\pm$ 5% K = $\pm$ 10% M = $\pm$ 20%

Stacked

Case Size	Voltage					
	50/30	63/40	100/63	160/90	250/160	400/200
10 - 13 x 9 x 4	1.5 μ F – 2.2 μ F	1 μ F	330 nF – 680 nF	220 nF – 330 nF	100 nF – 150 nF	33 nF – 68 nF
10 - 13 x 11 x 5	3.3 μ F	1.5 μ F – 2.2 μ F	1 μ F – 1.5 μ F	470 nF	220 nF – 330 nF	100 nF
10 - 13 x 12 x 6	4.7 μ F – 5.6 μ F	3.3 μ F		680 nF	470 nF	150 nF

R66 Radial, 7.5 mm Lead Spacing, Automotive Grade, 50 – 630 VDC/30 – 220 VAC

Capacitance Range: 0.001 to 4.7 μ F • Temperature Range: -55°C to +105°C

www.kemet.com/R66



R66	E	D	3100	AA	7A	J
Series	Rated Voltage (VDC)	Length (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
Metallized Polyester	C = 50 D = 63 E = 100 I = 250 M = 400 P = 630	D = 7.5	The last three digits represent significant figures. First digit specifies the number of zeros to be added.	See Ordering Options Table	10 6A 7A	J = $\pm$ 5% K = $\pm$ 10% M = $\pm$ 20%

Case Size	Voltage (VDC/VAC)					
	50/30	63/40	100/63	250/160	400/200	630/220
7.5 - 10 x 8 x 3	680 nF – 1 μ F	330 nF – 470 nF	68 nF – 220 nF	22 nF – 68 nF	6.8 nF – 22 nF	1 nF – 4.7 nF
7.5 - 10 x 9 x 4	1.5 μ F	680 nF – 1 μ F	330 nF – 680 nF	100 nF – 150 nF	33 nF – 47 nF	6.8 nF – 15 nF
7.5 - 10 x 10.5 x 5	2.2 μ F	1.5 μ F	1 μ F	220 nF	68 nF	22 nF
7.5 - 10.5 x 12 x 6	4.7 μ F	2.2 μ F – 3.3 μ F	1.5 μ F	330 nF	100 nF – 150 nF	33 nF – 47 nF

Film Capacitors – DC Film

General Purpose – Through-Hole

Metallized Polyester (PET) (cont.)

RSB Radial, Polyester, 125°C, 5 mm (Stacked), Automotive Grade, 50 – 630 VDC/30 – 220 VAC

Capacitance Range: 0.001 to 2.2 µF • Temperature Range: -55°C to +125°C

www.kemet.com/RSB



RSB	D	C	3100	AA	00	J
Series	Rated Voltage (VDC)	Length (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
Metallized Polyester	C = 50 D = 63 E = 100 I = 250 M = 400 W = 500 P = 630	C = 5.0	The last three digits represent significant figures. First digit specifies the number of zeros to be added.	See Ordering Options Table	30 50 60 70	J = ±5% K = ±10% M = ±20%

Case Size	Voltage (VDC/VAC)						
	50/30	63/40	100/63	250/160	400/200	500/220	630/220
5 - 7.2 x 6.5 x 2.5		100 nF – 220 nF	4.7 nF – 68 nF	1 nF – 15 nF	1 nF – 4.7 nF	1 nF – 1.5 nF	1 nF
5 - 7.2 x 7.5 x 3.5		330 nF – 470 nF	100 nF	22 nF – 33 nF	6.8 nF – 15 nF	2.2 nF – 4.7 nF	1.5 nF – 2.2 nF
5 - 7.2 x 9.5 x 4.5		680 nF	150 nF	47 nF – 68 nF	22 nF	6.8 nF	3.3 nF – 4.7 nF
5 - 7.2 x 10 x 5		1 µF	220 nF	100 nF	33 nF	10 nF	6.8 nF
5 - 7.2 x 11 x 6	2.2 µF	1.5 µF – 2.2 µF	330 nF – 470 nF	150 nF	47 nF	15 nF	10 nF
5 - 7.2 x 13 x 7.2		3.3 µF – 4.7 µF					

Metallized Polyester (PET) (cont.)

A50 Axial Pulse DC Transient, Automotive Grade, 50 – 1,000 VDC/30 – 250 VAC

Capacitance Range: 0.001 to 10 μF • Temperature Range: -55°C to +105°C

www.kemet.com/A50



A50	C	F	3470	AA	00	J
Series	Rated Voltage (VDC)	Length (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
Metallized Polyester	C = 50 D = 63 E = 100 I = 250 M = 400 P = 630 Q = 1000	F = 11 H = 14 K = 20.5 Q = 28 T = 33	The last three digits represent significant figures. First digit specifies the number of zeros to be added.	See Ordering Options Table	00, 60 (Standard)	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$

Case Size	Voltage (VDC/VAC)						
	50/30	63/40	100/63	250/160	400/200	630/220	1,000/250
5 x 11	470 nF – 680 nF	330 nF	100 nF – 220 nF	47 nF – 68 nF	10 nF – 33 nF	1 nF – 6.8 nF	
5 x 14						10 nF – 15 nF	
5.5 x 14				100 nF – 150 nF			
6 x 14		470 nF – 680 nF	330 nF – 470 nF		47 nF – 68 nF	22 nF	
6 x 20.5				330 nF	150 nF	33 nF – 47 nF	
6.5 x 11	1 μF						
6.5 x 14				220 nF	100 nF		1 nF – 3.3 nF
6.5 x 20.5		1.5 μF					
7 x 14	1.5 μF	1 μF	680 nF				
7 x 20.5			1 μF	470 nF		68 nF	10 nF
7 x 28						100 nF	
7.5 x 14							4.7 nF
7.5 x 20.5	3.3 μF				220 nF		15 nF
8 x 14	2.2 μF						6.8 nF
8 x 20.5		2.2 μF	1.5 μF				
8 x 28							33 nF
8.5 x 20.5	4.7 μF			680 nF	330 nF		
8.5 x 28				1 μF	470 nF	150 nF	
9 x 20.5							22 nF
9 x 28							47 nF
9.5 x 20.5		3.3 μF	2.2 μF				
9.5 x 28		4.7 μF	3.3 μF				
10 x 20.5	6.8 μF						
10 x 28				1.5 μF	680 nF	220 nF	
10 x 33			4.7 μF				
10.5 x 28							68 nF
10.5 x 33					1 μF	330 nF	
11 x 28		6.8 μF					
11 x 33				2.2 μF			
11.5 x 33		10 μF					

Film Capacitors – DC Film

General Purpose – Through-Hole

Metallized Polyester (PET) (cont.)

A50 Axial Pulse DC Transient, Automotive Grade, 50 – 1,000 VDC/30 – 250 VAC (cont.)

Capacitance Range: 0.001 to 10 μ F • Temperature Range: -55°C to +105°C

www.kemet.com/A50



A50	C	F	3470	AA	00	J
Series	Rated Voltage (VDC)	Length (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
Metallized Polyester	C = 50 D = 63 E = 100 I = 250 M = 400 P = 630 Q = 1000	F = 11 H = 14 K = 20.5 Q = 28 T = 33	The last three digits represent significant figures. First digit specifies the number of zeros to be added.	See Ordering Options Table	00, 60 (Standard)	J = $\pm$ 5% K = $\pm$ 10% M = $\pm$ 20%

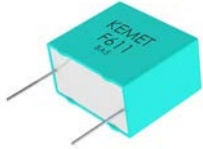
Case Size	Voltage (VDC/VAC)					
	50/30	100/63	250/160	400/200	630/220	1,000/250
12 x 20.5	10 μ F					
12 x 33		6.8 μ F			470 nF	
12.5 x 28						100 nF
12.5 x 33				1.5 μ F		
13 x 33			3.3 μ F			
13.5 x 33						150 nF
14.5 x 33		10 μ F			680 nF	
15 x 33				2.2 μ F		
15.5 x 33			4.7 μ F			
16 x 33						220 nF
17.5 x 33					1 μ F	
18.5 x 33			6.8 μ F	3.3 μ F		
19 x 33						330 nF
22 x 33			10 μ F			470 nF

Metallized Polyester (PET) (cont.)

F611 & F612, 5 – 37.5 mm Lead Spacing, 50 – 1,000 VDC/30 – 250 VAC

Capacitance Range: 0.001 to 180 µF • Temperature Range: -55°C to +105°C

www.kemet.com/F611



F	611	J	F	104	M	050	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging
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 = ±5% K = ±10% M = ±20%	050 = 50 063 = 63 100 = 100 160 = 160 250 = 250 400 = 400 630 = 630 1K0 = 1,000	See Ordering Options Table

F611

Case Size	Voltage (VDC/VAC)							
	50/30	63/40	100/63	160/90	250/160	400/200	630/220	1,000/250
5 - 7.2 x 6.5 x 2.5	270 nF – 470 nF						1.2 nF – 3.9 nF	1 nF
5 - 7.2 x 7.5 x 3.5	560 nF – 1 µF						4.7 nF – 10 nF	1.2 nF – 3.3 nF
5 - 7.2 x 9.5 x 4.5	1.2 µF – 1.5 µF						12 nF – 18 nF	3.9 nF – 5.6 nF
5 - 7.2 x 10 x 5	1.8 µF – 2.2 µF						22 nF	6.8 nF
5 - 7.2 x 11 x 6	2.7 µF – 3.3 µF						27 nF – 33 nF	8.2 nF – 12 nF
5 - 7.2 x 13 x 7.2	3.9 µF – 6 µF						39 nF – 47 nF	15 nF
7.5 - 10 x 6 x 2.5							1.8 nF – 4.7 nF	1 nF – 1.5 nF
7.5 - 10 x 8 x 3							5.6 nF – 10 nF	1.8 nF – 3.3 nF
7.5 - 10 x 8 x 4							12 nF – 18 nF	3.9 nF – 6.8 nF
7.5 - 10 x 10.5 x 5							22 nF – 39 nF	8.2 nF – 12 nF
7.5 - 10.5 x 12 x 6							47 nF – 56 nF	15 nF – 22 nF
10 - 13 x 9 x 4					100 nF – 150 nF	33 nF – 82 nF	12 nF – 27 nF	1 nF – 12 nF
10 - 13 x 11 x 5					180 nF – 270 nF	100 nF – 150 nF	33 nF – 47 nF	15 nF – 18 nF
10 - 13 x 12 x 6					330 nF – 470 nF	180 nF – 220 nF	56 nF – 82 nF	22 nF – 33 nF
15 - 18 x 10 x 4	1.8 µF	1.2 µF – 1.5 µF	560 nF – 1 µF	330 nF – 390 nF	180 nF – 270 nF	56 nF – 150 nF	22 nF – 47 nF	8.2 nF – 18 nF
15 - 18 x 11 x 5	2.2 µF – 2.7 µF	1.8 µF	1.2 µF – 1.5 µF	470 nF – 680 nF	330 nF – 390 nF	180 nF – 220 nF	56 nF – 82 nF	22 nF – 33 nF
15 - 18 x 12 x 6		3.3 µF	2.2 µF	1 µF	560 nF	330 nF	120 nF	47 nF
15 - 18 x 12.5 x 5.5	3.3 µF – 3.9 µF	2.2 µF – 2.7 µF	1.8 µF	820 nF	470 nF	270 nF	100 nF	39 nF
15 - 18 x 13.5 x 7.5	4.7 µF – 5.6 µF	3.9 µF – 4.7 µF	2.7 µF – 3.3 µF	1.2 µF – 1.5 µF	680 nF – 1 µF	390 nF – 560 nF	150 nF – 180 nF	56 nF – 68 nF
15 - 18 x 14.5 x 8.5	6.8 µF – 8.2 µF	5.6 µF – 6.8 µF	3.9 µF – 4.7 µF	1.8 µF	1.2 µF	680 nF	220 nF	82 nF – 100 nF
15 - 18 x 16 x 10	10 µF	8.2 µF – 10 µF	5.6 µF	2.2 µF	1.5 µF	820 nF	270 nF – 330 nF	120 nF
15 - 18 x 19 x 11	12 µF – 15 µF	12 µF	6.8 µF – 8.2 µF	2.7 µF – 3.9 µF	1.8 µF – 2.2 µF	1 µF – 1.5 µF	390 nF – 470 nF	150 nF – 180 nF
22.5 - 26 x 14.5 x 6		4.7 µF – 5.6 µF	2.2 µF – 3.9 µF	1.2 µF – 1.8 µF	820 nF – 1 µF	270 nF – 680 nF	120 nF – 220 nF	33 nF – 100 nF
22.5 - 26 x 16 x 7		6.8 µF – 8.2 µF	4.7 µF – 5.6 µF	2.2 µF – 2.7 µF	1.2 µF – 1.5 µF	820 nF – 1 µF	270 nF – 330 nF	120 nF – 150 nF
22.5 - 26 x 16 x 8			6.8 µF		1.8 µF		390 nF	180 nF
22.5 - 26 x 17 x 8.5		10 µF	8.2 µF	3.3 µF	2.2 µF	1.2 µF	470 nF	
22.5 - 26 x 18.5 x 9		12 µF	10 µF	3.9 µF		1.5 µF	560 nF	220 nF
22.5 - 26 x 18.5 x 10		15 µF	12 µF	4.7 µF	2.7 µF	1.8 µF	680 nF	270 nF
22.5 - 26 x 20 x 11		18 µF	15 µF	5.6 µF	3.3 µF	2.2 µF	820 nF	330 nF
22.5 - 26 x 22 x 13		22 µF	18 µF	6.8 µF – 8.2 µF	3.9 µF – 4.7 µF	2.7 µF – 3.3 µF	1 µF	390 nF – 470 nF
22.5 - 26 x 24.5 x 15.5		27 µF – 33 µF	22 µF – 27 µF	10 µF – 12 µF	5.6 µF – 6.8 µF	3.9 µF – 4.7 µF	1.2 µF – 1.5 µF	560 nF – 680 nF

Film Capacitors – DC Film

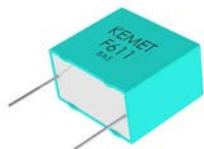
General Purpose – Through-Hole

Metallized Polyester (PET) (cont.)

F611 & F612, 5 – 37.5 mm Lead Spacing, 63 – 1,000 VDC/40 – 250 VAC (cont.)

Capacitance Range: 0.001 to 180 μ F • Temperature Range: -55°C to +105°C

www.kemet.com/F611



F	611	J	F	104	M	050	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging
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 = 1,000	See Ordering Options Table

F611 (cont.)

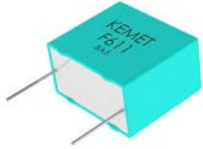
Case Size	Voltage (VDC/VAC)						
	63/40	100/63	160/90	250/160	400/200	630/220	1,000/250
27.5 - 31.5 x 17 x 9	15 μ F	10 μ F	5.6 μ F – 8.2 μ F	2.2 μ F – 4.7 μ F	820 nF – 1.8 μ F	330 nF – 680 nF	150 nF – 330 nF
27.5 - 31.5 x 20 x 11	18 μ F – 22 μ F	15 μ F – 18 μ F	10 μ F – 12 μ F	5.6 μ F – 6.8 μ F	2.2 μ F – 2.7 μ F	820 nF – 1 μ F	390 nF – 470 nF
27.5 - 31.5 x 25 x 13	27 μ F – 33 μ F	22 μ F – 27 μ F	15 μ F – 18 μ F	8.2 μ F – 12 μ F	3.3 μ F – 4.7 μ F	1.2 μ F – 1.8 μ F	560 nF – 680 nF
27.5 - 31.5 x 28 x 14	39 μ F	33 μ F	22 μ F	15 μ F	5.6 μ F	2.2 μ F	820 nF
27.5 - 31.5 x 28 x 17.5	47 μ F	39 μ F	27 μ F	18 μ F	6.8 μ F – 8.2 μ F	2.2 μ F – 2.7 μ F	1 μ F – 1.2 μ F
27.5 - 31.5 x 29 x 19	56 μ F	47 μ F	33 μ F	22 μ F			1.5 μ F
27.5 - 31.5 x 37 x 22	68 μ F – 100 μ F	56 μ F – 82 μ F	39 μ F – 56 μ F	27 μ F – 33 μ F	10 μ F – 15 μ F	3.3 μ F – 4.7 μ F	1.8 μ F – 2.2 μ F
37.5 - 41 x 22 x 11	22 μ F – 27 μ F	22 μ F – 27 μ F	15 μ F – 18 μ F	5.6 μ F – 12 μ F	2.2 μ F – 4.7 μ F	820 nF – 1.8 μ F	470 nF – 680 nF
37.5 - 41 x 24 x 13	33 μ F	33 μ F	22 μ F	15 μ F	5.6 μ F – 6.8 μ F	2.2 μ F	820 nF – 1 μ F
37.5 - 41 x 26 x 15	39 μ F – 47 μ F	39 μ F – 47 μ F	27 μ F – 33 μ F	18 μ F – 22 μ F	8.2 μ F	2.7 μ F	1.2 μ F
37.5 - 41 x 28.5 x 16	56 μ F	56 μ F	39 μ F	27 μ F	10 μ F	3.3 μ F	1.5 μ F
37.5 - 41 x 32 x 19	68 μ F	68 μ F	47 μ F	33 μ F	12 μ F	3.9 μ F – 4.7 μ F	1.8 μ F – 2.2 μ F
37.5 - 41 x 38 x 21	82 μ F – 100 μ F	82 μ F – 100 μ F	56 μ F – 68 μ F	39 μ F – 47 μ F	15 μ F – 18 μ F	5.6 μ F – 6.8 μ F	2.7 μ F
37.5 - 41 x 44 x 24	120 μ F – 150 μ F	120 μ F – 150 μ F	82 μ F – 100 μ F	56 μ F – 68 μ F	22 μ F – 27 μ F	8.2 μ F – 10 μ F	3.3 μ F – 3.9 μ F
37.5 - 41 x 45 x 30	180 μ F	180 μ F	120 μ F	82 μ F	33 μ F	12 μ F	4.7 μ F – 5.6 μ F

Metallized Polyester (PET) (cont.)

F611 & F612, 5 – 37.5 mm Lead Spacing, 63 – 400 VDC/40 – 200 VAC (cont.)

Capacitance Range: 0.001 to 180 μ F • Temperature Range: -55°C to +105°C

www.kemet.com/F611



F	611	J	F	104	M	050	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging
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 = 1,000	See Ordering Options Table

F612

Case Size	Voltage (VDC/VAC)					
	63/40	100/63	250/140	250/160	400/160	400/200
5 - 7.2 x 6.5 x 2.5	100 nF – 220 nF	1 nF – 120 nF	22 nF – 27 nF	6.8 nF – 18 nF	6.8 nF – 8.2 nF	1 nF – 4.7 nF
5 - 7.2 x 7.5 x 3.5	270 nF – 470 nF	150 nF – 270 nF	47 nF – 68 nF	22 nF – 39 nF	15 nF – 18 nF	5.6 nF – 82 nF
5 - 7.2 x 9.5 x 4.5	560 nF – 820 nF	330 nF – 470 nF	82 nF – 120 nF	47 nF – 68 nF	33 nF – 39 nF	15 nF – 22 nF
5 - 7.2 x 10 x 5	1 μ F	560 nF – 680 nF	150 nF	82 nF – 100 nF	47 nF	27 nF – 33 nF
5 - 7.2 x 11 x 6	1.2 μ F – 1.5 μ F	820 nF – 1 μ F	180 nF – 220 nF	120 nF – 150 nF	68 nF	39 nF – 56 nF

Film Capacitors – DC Film

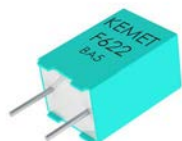
General Purpose – Through-Hole

Metallized Polyester (PET) (cont.)

F622 125°C, Halogen-Free, 5 mm (Stacked), 50 – 630 VDC/30 – 220 VAC

Capacitance Range: 0.001 to 2.2 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/F622



F	622	J	F	104	M	050	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging
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

Case Size	Voltage (VDC/VAC)						
	50/30	63/40	100/63	250/160	400/200	500/220	630/220
5 - 7.2 x 6.5 x 2.5		100 nF – 220 nF	4.7 nF – 68 nF	1 nF – 82 nF	1 nF – 4.7 nF	1 nF – 1.8 nF	1 nF – 1.2 nF
5 - 7.2 x 7.5 x 3.5		270 nF – 470 nF	82 nF – 100 nF	22 nF – 39 nF	5.6 nF – 15 nF	2.2 nF – 4.7 nF	1.5 nF – 2.7 nF
5 - 7.2 x 9.5 x 4.5		560 nF – 820 nF	120 nF – 180 nF	47 nF – 82 nF	18 nF – 27 nF	5.6 nF – 8.2 nF	3.3 nF – 5.6 nF
5 - 7.2 x 10 x 5		1 μ F	220 nF	100 nF	33 nF – 39 nF	10 nF	6.8 nF
5 - 7.2 x 11 x 6	2.2 μ F	1.2 μ F – 1.5 μ F	270 nF – 470 nF	120 nF – 150 nF	47 nF – 56 nF	12 nF – 15 nF	8.2 nF – 10 nF

Metallized Paper

PME261 Impregnated Paper, 10.2 – 25.4 mm Lead Spacing, 400 – 1,000 VDC/220 – 500 VAC

Capacitance Range: 0.001 to 1 μ F

Temperature Range: -40°C to +70°C (AC Applications) & -40°C to +100°C (DC Applications)

www.kemet.com/PME261

Legacy Part Number System



PME261	K	A	5100	K	R30
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Capacitance Tolerance	Packaging
Metallized Paper	K = 220 E = 300 J = 500	A = 10.2 B = 15.2 C = 20.3 E = 25.4	The last three digits represent significant figures. First digit specifies the total number of digits in the capacitance value.	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	See Ordering Options Table

New KEMET Part Number System

P	561	H	E	103	K	220	A
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VAC)	Packaging
P = Paper	Metallized Paper General Purpose	H = 10.2 Q = 15.2 C = 20.3 E = 25.4	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 zeroes.	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	220 = 220 300 = 300 500 = 500	See Ordering Options Table

Case Size	Voltage (VDC/VAC)		
	400/220	630/300	1,000/500
7.5 - 13.5 x 7.5 x 3.9	8.2 nF – 10 nF	1 nF – 6.8 nF	1 nF – 3.3 nF
7.5 - 13.5 x 10.5 x 5.1	15 nF – 22 nF	10 nF – 15 nF	4.7 nF – 6.8 nF
10.2 - 13.5 x 7.5 x 3.9	8.2 nF – 10 nF	1 nF – 6.8 nF	1 nF – 3.3 nF
10.2 - 13.5 x 10.5 x 5.1	15 nF – 22 nF	10 nF – 15 nF	4.7 nF – 6.8 nF
15.2 - 18.5 x 10.5 x 5.2	33 nF – 47 nF	22 nF – 33 nF	10 nF – 15 nF
15.2 - 18.5 x 13 x 7.3	68 nF – 100 nF	47 nF – 68 nF	22 nF
15.2 - 18.5 x 13.5 x 7.8			33 nF
20.3 - 24 x 14 x 7.6	150 nF	100 nF	47 nF
20.3 - 24 x 14 x 8.4	220 nF		
20.3 - 24 x 15 x 9		150 nF	68 nF
20.3 - 24 x 16.5 x 11.3	330 nF		100 nF
25.4 - 30.5 x 17.3 x 10.6	470 nF		
25.4 - 30.5 x 22 x 15.3	680 nF – 1 μ F		

Film Capacitors – DC Film

General Purpose – Through-Hole

Polyester (PET)

F161 Encapsulated Stacked, Size 2220 – 6560, Automotive Grade, 50 – 630 VDC/30 – 250 VAC

Capacitance Range: 0.01 to 2.2 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/F161



F	161	P	P	103	K	050	V
Capacitor Class	Series	Chip Size	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging Code
F = Film	Metallized Polyester Stacked Technology	P = 2220 S = 2824 W = 4036 Y = 5045 Z = 6560	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 = ± 5 K = $\pm 10\%$ M = $\pm 20\%$ Other tolerances on request.	050 = 50 063 = 63 100 = 100 250 = 250 400 = 400 630 = 630	See Ordering Options Table

Case Size	Voltage (VDC/VAC)					
	50/30	63/40	100/63	250/160	400/200	630/250
2220	10 nF – 220 nF		10 nF – 100 nF			
2824	10 nF – 1 μ F	10 nF – 470 nF	10 nF – 220 nF	10 nF – 47 nF		
4036	22 nF – 2.2 μ F	22 nF – 1.5 μ F	22 nF – 1 μ F	22 nF – 220 nF	22 nF – 82 nF	
5045	2.7 μ F – 4.7 μ F	1.8 μ F – 3.3 μ F	1.2 μ F – 1.8 μ F	270 nF – 470 nF	100 nF – 180 nF	
6560	5.6 μ F – 12 μ F	3.9 μ F – 4.7 μ F	2.2 μ F – 4.7 μ F	560 nF – 1 μ F	220 nF – 470 nF	100 nF – 180 nF

Polyethylene Naphthalate (PEN)

LDE Unencapsulated Stacked Chip, Size 1206 – 6054, Automotive Grade, 50 – 1,000 VDC/40 – 250 VAC

Capacitance Range: 0.001 to 4.7 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/LDE



LDE	C	C	2560	M	A	5	N	00
Series	Rated Voltage (VDC)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Dielectric	Version	Packaging	Internal Use
Metallized PEN	C = 50 D = 63 E = 100 I = 250 M = 400 P = 630 Q = 1,000	See Dimension Table	Digits two – four indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added.	K = $\pm 10\%$ M = $\pm 20\%$ J = $\pm 5\%$ on request	A = PEN	5 = Standard 0 = Miniature	See Ordering Options Table	00 (Standard)

Case Size	Voltage (VDC/VAC)						
	50/40	63/40	100/63	250/120	400/160	630/200	1,000/250
1206	1 nF – 33 nF	1 nF – 33 nF	1 nF – 15 nF	1 nF – 3.3 nF			
1210	33 nF – 100 nF	33 nF – 100 nF	18 nF – 47 nF	3.9 nF – 10 nF			
1812	1.5 nF – 220 nF	1.5 nF – 220 nF	1.5 nF – 100 nF	1.5 nF – 33 nF			
2220	270 nF – 1 μ F	270 nF – 1 μ F	120 nF – 470 nF	18 nF – 120 nF	15 nF – 47 nF	1 nF – 18 nF	1 nF – 6.8 nF
2824	820 nF – 1.8 μ F	820 nF – 1.8 μ F	390 nF – 1 μ F	82 nF – 220 nF	56 nF – 100 nF	22 nF – 39 nF	8.2 nF – 18 nF
4030	2.2 μ F – 3.9 μ F	2.2 μ F – 3.9 μ F	820 nF – 2.2 μ F	180 nF – 560 nF	120 nF – 180 nF	47 nF – 100 nF	22 nF – 33 nF
5040	1.5 μ F – 4.7 μ F	1.5 μ F – 4.7 μ F	1.2 μ F – 3.3 μ F	390 nF – 820 nF	220 nF – 330 nF	100 nF – 150 nF	39 nF – 68 nF
6054	3.3 μ F – 4.7 μ F	3.3 μ F – 4.7 μ F	2.7 μ F – 4.7 μ F	680 nF – 1.5 μ F	390 nF – 470 nF	180 nF – 270 nF	82 nF – 100 nF

Polyethylene Naphthalate (PEN) (cont.)

GMC Encapsulated Stacked, Size 2220 – 6560, 50 – 630 VDC/30 – 300 VAC

Capacitance Range: 0.001 to 5.6 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/GMC

Legacy Part Number System



GMC	5.7	102	K	50	J33	TR12
Series	Chip Length (mm)	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Size Code	Packaging
Metallized PEN	5.7 7.3 10.2 12.7 16.5	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% Other tolerances on request.	50 63 100 250 400 630	See Dimension Table	See Ordering Options Table

New KEMET Part Number System

F	115	P	P	102	K	050	V
Capacitor Class	Series	Chip Size	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging
F = Film	Metallized PEN	P = 2220 S = 2824 W = 4036 Y = 5045 Z = 6560	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% Other tolerances on request.	050 = 50 063 = 63 100 = 100 250 = 250 400 = 400 630 = 630	See Ordering Options Table

Case Size	Voltage (VDC/VAC)					
	50/30	63/40	100/63	250/160	400/200	630/300
2220	1 nF – 180 nF		1 nF – 47 nF	1 nF – 22 nF		
2824		1 nF – 390 nF	1 nF – 100 nF	1 nF – 39 nF	1 nF – 15 nF	
4036	22 nF – 1.2 μ F	22 nF – 820 nF	22 nF – 330 nF	22 nF – 150 nF	22 nF – 47 nF	22 nF
5045	1.5 μ F – 3 μ F	1 μ F – 1.5 μ F	390 nF – 680 nF	180 nF – 330 nF	56 nF – 100 nF	27 nF – 56 nF
6560	3.9 μ F – 5.6 μ F	1.8 μ F – 4.7 μ F	820 nF – 2.2 μ F	390 nF – 680 nF	120 nF – 330 nF	68 nF – 150 nF

Film Capacitors – DC Film

General Purpose – Surface Mount

Polyethylene Naphthalate (PEN) (cont.)

GPC Encapsulated Double Metallized, Size 2824 – 6560, 63 – 1,000 VDC/40 – 350 VAC

Capacitance Range: 470 pF to 1.0 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/GPC

Legacy Part Number System



GPC	7.3	471	K	63	K33	TR12
Series	Chip Length (mm)	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Size Code	Packaging
Double Metallized PEN	7.3 10.2 12.7 16.5	First two digits indicate the two most significant digits of the capacitance value in picofarads. The third digit is the number of following zeros.	K = $\pm 10\%$ M = $\pm 20\%$ Other tolerances on request.	63 100 160 250 400 630 1,000	See Dimension Table	See Ordering Options Table

New KEMET Part Number System

F	117	S	L	471	K	063	V
Capacitor Class	Series	Chip Size	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging
F = Film	Double Metallized PEN	S = 2824 W = 4036 Y = 5045 Z = 6560	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.	K = $\pm 10\%$ M = $\pm 20\%$ Other tolerances on request.	063 = 63 100 = 100 160 = 160 250 = 250 400 = 400 630 = 630 1K0 = 1,000	See Ordering Options Table

Case Size	Voltage (VDC/VAC)						
	63/40	100/63	160/100	250/160	400/200	630/300	1,000/350
2824	0.5 nF – 100 nF	0.5 nF – 47 nF	0.5 nF – 33 nF	0.5 nF – 22 nF	0.5 nF – 10 nF	0.5 nF – 6.8 nF	0.5 nF – 4.7 nF
4036	6.8 nF – 330 nF	6.8 nF – 150 nF	6.8 nF – 100 nF	6.8 nF – 68 nF	6.8 nF – 27 nF	6.8 nF – 22 nF	6.8 nF – 15 nF
5045	470 nF	220 nF – 330 nF	150 nF – 220 nF	100 nF – 150 nF	33 nF – 68 nF	33 nF – 47 nF	22 nF – 33 nF
6560	680 nF – 1 μ F	470 nF – 1 μ F	330 nF – 680 nF	220 nF – 470 nF	100 nF – 220 nF	68 nF – 100 nF	47 nF – 68 nF

Metallized Polyphenylene Sulfide (PPS)

SPC Encapsulated Double Metallized, Size 2824 – 6560, 100 – 630 VDC/63 – 350 VAC

Capacitance Range: 470 pF to 0.68 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/SPC

Legacy Part Number System



SPC	7.3	471	K	100	K33	TR12
Series	Chip Length (mm)	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Size Code	Packaging
Double Metallized PPS	7.3 10.2 12.7 16.5	First two digits represent significant figures. The third digit specifies number of zeros.	G = $\pm 2\%$ H = $\pm 2.5\%$ J = $\pm 5\%$ K = $\pm 10\%$	100 250 400 630	See Dimension Table	See Ordering Options Table

New KEMET Part Number System

F	127	S	L	471	K	100	V
Capacitor Class	Series	Chip Size	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging
F = Film	Double Metallized PPS	S = 2824 W = 4036 Y = 5045 Z = 6560	See Dimension Table	First two digits represent significant figures. The third digit specifies number of zeros.	G = $\pm 2\%$ R = $\pm 2.5\%$ J = $\pm 5\%$ K = $\pm 10\%$	100 250 400 630	See Ordering Options Table

Case Size	Voltage (VDC/VAC)			
	100/63	250/160	400/250	630/350
2824	0.5 nF – 33 nF	0.5 nF – 15 nF	0.5 nF – 6.8 nF	0.5 nF – 4.7 nF
4036	6.8 nF – 100 nF	6.8 nF – 47 nF	6.8 nF – 22 nF	6.8 nF – 15 nF
5045	150 nF – 220 nF	68 nF – 100 nF	33 nF – 47 nF	22 nF – 33 nF
6560	330 nF – 680 nF	150 nF – 330 nF	68 nF – 150 nF	47 nF – 100 nF

Film Capacitors – DC Film

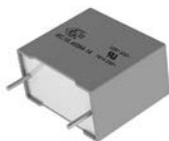
General Purpose – Specialty Components

RC Network – Metallized Polypropylene

F43 Integrated Resistor Metallized Polypropylene, 250 – 630 VDC/160 – 275 VAC

Capacitance Range: 0.01 to 1.0 μF • Temperature Range: -55°C to +100°C

www.kemet.com/F43



F	43	K	N	3100	XX	01	K	R101
Capacitor Class	Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance	Resistance (Ω)
Legacy PN: F New KEMET PN: Omit this character	RC Snubber, Metallized Polypropylene	I = 160 M = 200 P = 220 K = 275 (X2)	I = 15.0 N = 22.5 R = 27.5	The last three digits represent significant figures. The first digit specifies number of zeros to be added.	See Ordering Option Table. Contact KEMET for other packaging availability and details.	00, 01, 04 (Standard)	K = $\pm 10\%$ M = $\pm 20\%$	R plus first two digits represent significant figures. Third digit specifies number of zeros.

Case Size	Voltage (VDC/VAC)		
	250/160	400/200	630/220
15 - 18 x 14.5 x 7.5			22 nF
15 - 18 x 14.5 x 8.5	250 nF		
22.5 - 26.5 x 15 x 6	330 nF		
22.5 - 26.5 x 16 x 7		250 nF	100 nF
22.5 - 26.5 x 17 x 8.5	470 nF – 500 nF		
22.5 - 26.5 x 18.5 x 10	1 μF	500 nF	
22.5 - 26.5 x 20 x 11			250 nF
27.5 - 32 x 22 x 13		1 μF	500 nF

(X2)

Case Size	Voltage
	275 VAC
15 - 18 x 14.5 x 7.5	10 nF – 47 nF
15 - 18 x 16 x 10	68 nF
22.5 - 26.5 x 17 x 8.5	100 nF
22.5 - 26.5 x 18.5 x 10	150 nF
22.5 - 26.5 x 20 x 11	220 nF
27.5 - 32 x 20 x 11	250 nF – 330 nF
27.5 - 32 x 22 x 13	470 nF – 500 nF
27.5 - 32 x 33 x 18	680 nF – 1 μF

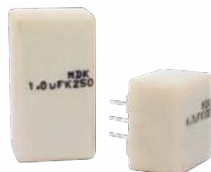
Dual In-Line Polyester – Through-Hole

MDK High Current, 50 – 630 VDC/30 – 220 VAC

Capacitance Range: 0.033 to 15 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/MDK

Legacy Part Number System



MDK	10	333	K	50	A52	P3	TUBE
Series	Lead Spacing (mm)	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Size Code	Number of Leads per Side	Packaging
Dual In-Line, Metallized Polyester	10 15	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% Other tolerances on request	50 100 250 400 630	See Dimension Table	P3 = 3 leads P4 = 4 leads P5 = 5 leads P7 = 7 leads P8 = 8 leads	See Ordering Options Table

New KEMET Part Number System

F	68	3	A	A	333	K	050	T
Capacitor Class	Series	Number of Leads per Side	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging
F = Film	Dual In-Line, Metallized Polyester	3 = 3 leads 4 = 4 leads 5 = 5 leads 7 = 7 leads 8 = 8 leads	A = 10 B = 15	A = Standard box size	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% Other tolerances on request	050 = 50 100 = 100 250 = 250 400 = 400 630 = 630	See Ordering Options Table

Case Size	Voltage (VDC/VAC)				
	50/30	100/63	250/160	400/200	630/220
A52	33 nF – 4.7 μ F	33 nF – 3.9 μ F	33 nF – 470 nF	33 nF – 180 nF	33 nF – 56 nF
A53		4.7 μ F			
A54	5.6 μ F	4.7 μ F	560 nF		68 nF
A55	6.8 μ F	5.6 μ F	680 nF		
A58	8.2 μ F – 15 μ F	6.8 μ F – 10 μ F	820 nF – 1.5 μ F	220 nF – 470 nF	82 nF – 180 nF
B53	33 nF – 6.8 μ F	33 nF – 4.7 μ F	33 nF – 680 nF	33 nF – 270 nF	33 nF – 100 nF
B55		5.6 μ F		330 nF	

Film Capacitors – DC Film

General Purpose – Specialty Components

Dual In-Line Polyester – Surface Mount

MDC High Current, 50 – 630 VDC/30 – 220 VAC

Capacitance Range: 0.033 to 15 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/MDC

Legacy Part Number System



MDC	10	333	K	50	A52	P3	TUBE
Series	Lead Spacing (mm)	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Size Code	Number of Leads per Side	Packaging
Dual In-Line, Metallized Polyester	10 15	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 = ± 5 K = $\pm 10\%$ Other tolerances on request.	50 100 250 400 630	See Dimension Table	P3 = 3 leads P4 = 4 leads P5 = 5 leads P7 = 7 leads P8 = 8 leads	See Ordering Options Table

New KEMET Part Number System

F	15	3	A	A	333	K	050	T
Capacitor Class	Series	Number of Leads per Side	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging
F = Film	Dual In-line, Metallized Polyester	3 = 3 leads 4 = 4 leads 5 = 5 leads 7 = 7 leads 8 = 8 leads	A = 10 B = 15	A = Standard box size	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 = ± 5 K = $\pm 10\%$ Other tolerances on request	050 = 50 100 = 100 250 = 250 400 = 400 630 = 630	See Ordering Options Table

Case Size	Voltage (VDC/VAC)				
	50/30	100/63	250/160	400/200	630/220
A52	33 nF – 4.7 μ F	33 nF – 3.9 μ F	33 nF – 470 nF	33 nF – 180 nF	33 nF – 56 nF
A53		4.7 μ F			
A54	5.6 μ F	4.7 μ F	560 nF		68 nF
A55	6.8 μ F	5.6 μ F	680 nF		
A58	8.2 μ F – 15 μ F	6.8 μ F – 10 μ F	820 nF – 1.5 μ F	220 nF – 470 nF	82 nF – 180 nF
B53	33 nF – 6.8 μ F	33 nF – 4.7 μ F	33 nF – 680 nF	33 nF – 270 nF	33 nF – 100 nF
B55		5.6 μ F		330 nF	

Dual In-Line Polyester – Surface Mount (cont.)

MDS Low Profile, High Current, 50 – 630 VDC/30 – 220 VAC

Capacitance Range: 0.033 to 6.8 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/MDS

Legacy Part Number System



MDS	10	333	K	50	A52	P3	TUBE
Series	Lead Spacing (mm)	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Size Code	Number of Leads per Side	Packaging
Dual In-Line, Metallized Polyester	10 15	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% Other tolerances on request.	050 = 50 100 = 100 250 = 250 400 = 400 630 = 630	See Dimension Table	P3 = 3 leads P4 = 4 leads P5 = 5 leads	See Ordering Options Table

New KEMET Part Number System

F	17	3	A	A	333	K	050	T
Capacitor Class	Series	Number of Leads per Side	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging
F = Film	Dual In-Line, Metallized Polyester	3 = 3 leads 4 = 4 leads 5 = 5 leads	A = 10 B = 15	A = Standard box size	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% Other tolerances on request	050 = 50 100 = 100 250 = 250 400 = 400 630 = 630	See Ordering Options Table

Case Size	Voltage (VDC/VAC)				
	50/30	100/63	250/160	400/200	630/220
A52	33 nF – 4.7 μ F	33 nF – 3.9 μ F	33 nF – 470 nF	33 nF – 180 nF	33 nF – 56 nF
A54	5.6 μ F	4.7 μ F	560 nF		68 nF
A55	6.8 μ F	5.6 μ F	680 nF		
B53	33 nF – 6.8 μ F	33 nF – 4.7 μ F	33 nF – 680 nF	33 nF – 270 nF	33 nF – 100 nF
B55		5.6 μ F		330 nF	

Film Capacitors – Power AC

Polypropylene – Through-Hole

Axial

C4G Axial Round, 250 – 850 VDC/160 – 450 VAC

Capacitance Range: 0.15 to 40 µF • Temperature Range: -40°C to +85°C

www.kemet.com/C4G



C4	G	A	D	U	B	4100	AA	4	J
Series	Type	Fire Protection	Rated Voltage (VDC)	Insulation	Lead Diameter (mm)	Capacitance Code (pF)	Packaging	Capacitor Length (mm)	Tolerance
C4 = MKP Capacitors	G = Round body, switching application	A = No fire retardant S = Fire retardant (on request)	D = 250 F = 400 H = 600 J = 700 M = 850	U = Polyester tape and resin protection 0 = Uninsulated (on request)	B = 0.8 C = 1.0 D = 1.2	Digits 2 – 4 indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added.	AA = Bulk (Bag) – straight leads see Dimensions Table	4 = 20.5 5 = 28 0 = 33 1 = 44 3 = 58	J = 5% K = 10%

Case Size	Voltage (VDC/VAC)				
	250/160	400/250	600/330	700/400	850/450
9.5 x 28		470 nF			
10 x 33		680 nF			150 nF
11 x 20.5	1 µF				
11 x 33			470 nF		
11.5 x 33	2.2 µF				
12 x 33	2.5 µF	1 µF			220 nF
13 x 33			680 nF		
13.5 x 33	3 µF				
14 x 33	3.3 µF				
14.5 x 33		1.5 µF		470 nF	330 nF
15.5 x 33	4 µF		1 µF		
16.5 x 33		2 µF			
17 x 33	5 µF			680 nF	470 nF
17.5 x 33		2.2 µF			
18 x 44		3.3 µF			
18.5 x 33		2.5 µF			
18.5 x 44			2 µF		
19.5 x 33	6.8 µF				
19.5 x 44		4 µF	2.2 µF		
20 x 33		3 µF			
20 x 44	10 µF				
20.5 x 33				1 µF	680 nF
20.5 x 44				1.5 µF	1 µF
21 x 44		4.7 µF			

Case Size	Voltage (VDC/VAC)				
	250/160	400/250	600/330	700/400	850/450
21.5 x 44		5 µF			
22.5 x 44			3 µF		
23.5 x 44			3.3 µF	2 µF	
24.5 x 44	15 µF			2.2 µF	1.5 µF
25 x 44		6.8 µF			
25.5 x 44			4 µF		
27.5 x 44			4.7 µF		
28 x 44	20 µF				
28 x 58					3 µF
28.5 x 44			5 µF	3 µF	2 µF
28.5 x 58			6.8 µF		
29 x 58	30 µF				
29.5 x 44					2.2 µF
29.5 x 58				4.7 µF	3.3 µF
30 x 44		10 µF		3.3 µF	
30.5 x 58				5 µF	
31 x 44	25 µF				
31.5 x 44					2.5 µF
31.5 x 58		15 µF			
32.5 x 58					4 µF
33 x 44				4 µF	
33.5 x 58	40 µF				
34.5 x 58			10 µF		
35 x 58		20 µF		6.8 µF	

Axial (cont.)

C4C Axial Round, 850 – 3,000 VDC/450 – 750 VAC

Capacitance Range: 0.0068 to 2.5 μ F • Temperature Range: -40°C to +85°C

www.kemet.com/C4C



C4	C	A	M	U	B	3100	AA	0	J
Series	Type	Fire Protection	Rated Voltage (VDC)	Insulation	Lead Diameter (mm)	Capacitance Code (pF)	Packaging	Capacitor Length (mm)	Tolerance
C4 = MKP Capacitors	C = Round body, snubber application	A = No fire retardant S = Fire retardant (on request)	M = 850 P = 1,200 W = 2,000 Y = 3,000	U = Polyester tape and resin protection 0 = Uninsulated (on request)	B = 0.8 C = 1.0 D = 1.2	Digits two – four indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added.	AA = Bulk (Bag) – straight leads see "Dimensions Table"	0 = 33 1 = 44 3 = 58	J = 5% K = 10%

Case Size	Voltage (VDC/VAC)			
	850/450	1,200/500	2,000/630	3,000/750
10 x 33		47 nF		6.8 nF
10.5 x 33	100 nF		22 nF	
12 x 33		68 nF		10 nF
12.5 x 33	150 nF		33 nF	
14 x 33		100 nF		
14.5 x 33				15 nF
15 x 33			47 nF	
15.5 x 33	220 nF			
17 x 33				22 nF
17.5 x 33		150 nF	68 nF	
18.5 x 33	330 nF			
19 x 44				47 nF
19.5 x 44			150 nF	
20 x 44		330 nF		
20.5 x 33		220 nF	100 nF	33 nF
21 x 44	680 nF			
21.5 x 33	470 nF			
22.5 x 44				68 nF
23 x 44		470 nF		
23.5 x 44			220 nF	
25 x 44	1 μ F			
27 x 44				100 nF
27.5 x 44		680 nF		
28.5 x 44			330 nF	
28.5 x 58	2 μ F			
29 x 58		1.2 μ F	560 nF	
29.5 x 58	2.2 μ F			
30.5 x 44	1.5 μ F			
31 x 58				220 nF
31.5 x 58	2.5 μ F			
32 x 44				150 nF
32 x 58		1.5 μ F	680 nF	
33 x 44		1 μ F		
33.5 x 44			470 nF	

Film Capacitors – Power AC

Polypropylene – Through-Hole

Radial Box

C4AE, 2 or 4 Leads, for DC Link, 450 – 1,100 VDC

Capacitance Range: 1 to 100 µF • Temperature Range: -40°C to +105°C

www.kemet.com/C4AE



C4	A	E	Q	B	W	5270	A	3	N	J
Series	Type	Application	Rated Voltage (VDC)	Case	Terminals Code	Capacitance Code (pF)	C-Spec	Lead Diameter (mm)	Size Code: B x H x L (mm)	Tolerance
C4 = MKP Power Capacitors	A = Box, wire terminals	E = DC link	G = 450 H = 600 J = 700 O = 900 Q = 1,100	B = Box, plastic case	U = 2 pins W = 4 pins	Digits two – four indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added.	A = Standard grade	1 = 0.8 2 = 1.0 3 = 1.2	W = 11 x 20 x 31.5 X = 13 x 25 x 31.5 Y = 14 x 28 x 31.5 1 = 19 x 29 x 31.5 2 = 22 x 37 x 31.5 F = 20 x 40 x 42 J = 28 x 37 x 42 L = 30 x 45 x 42 M = 30 x 45 x 57.5 N = 35 x 50 x 57.5	J = 5% K = 10%

Case Size	Voltage				
	450 VDC	600 VDC	700 VDC	900 VDC	1,100 VDC
27.5 - 31.5 x 20 x 11	4.5 µF – 5.6 µF	3.3 µF	2.7 µF	1.5 µF	1 µF
27.5 - 31.5 x 25 x 13	6.8 µF – 10 µF	5.6 µF	4 µF	2.7 µF	1.8 µF
27.5 - 31.5 x 28 x 14	10 µF – 12.5 µF	7 µF	5 µF	3.3 µF	2.2 µF
27.5 - 31.5 x 29 x 19	12.5 µF – 15 µF	10 µF	8 µF	5 µF	3.3 µF
27.5 - 31.5 x 37 x 22	20 µF – 25 µF	15 µF	12.5 µF	8 µF	5 µF
37.5 - 42 x 37 x 28	35 µF – 50 µF	30 µF	20 µF	14 µF	10 µF
37.5 - 42 x 40 x 20	30 µF – 40 µF	20 µF	15 µF	12 µF	8 µF
37.5 - 42 x 44 x 24	40 µF		22 µF	16 µF	
37.5 - 42 x 45 x 30	50 µF – 70 µF	40 µF	30 µF	20 µF	12 µF
52.5 - 57.5 x 45 x 30	75 µF – 100 µF	55 µF	45 µF	30 µF	20 µF
52.5 - 57.5 x 50 x 35	100 µF – 130 µF	75 µF	55 µF – 60 µF	40 µF	25 µF – 27 µF

Radial Box (cont.)

C4AS, 2 or 4 Leads, 850 – 3,000 VDC/500 – 750 VAC

Capacitance Range: 0.022 to 5 μ F • Temperature Range: -40°C to +85°C

www.kemet.com/C4AS



C4	AS	M	B	U	3150	A3	A	J
Series	Type	Rated Voltage (VDC)	Case	Number of Leads	Capacitance Code (pF)	Lead Diameter (mm)	Size Code	Tolerance
C4 = MKP Capacitors	AS = Radial box, snubber application	M = 850 N = 1,000 P = 1,200 W = 2,000 Y = 3,000	B = Plastic box with epoxy resin sealing	U = 2 lead W = 4 lead	Digits two – four indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added.	A1 = 0.8 A3 = 1.2	See Dimension Table	J = 5% K = 10%

Case Size	Voltage (VDC/VAC)				
	850/500	1,000/600	1,200/630	2,000/700	3,000/750
27.5 - 32 x 20 x 10	150 nF	150 nF	100 nF	33 nF – 47 nF	22 nF
27.5 - 32 x 22 x 13	220 nF	220 nF	150 nF	68 nF	33 nF
27.5 - 32 x 28 x 14	330 nF	330 nF	220 nF	100 nF	47 nF – 68 nF
27.5 - 32 x 33 x 18	470 nF	470 nF	330 nF	150 nF – 220 nF	100 nF
27.5 - 32 x 37 x 22	680 nF	680 nF	470 nF		150 nF
37.5 - 41.5 x 40 x 20	1 μ F	1 μ F	680 nF – 1 μ F	330 nF	220 nF
37.5 - 41.5 x 44 x 24	2 μ F			680 nF	330 nF
37.5 - 42 x 45 x 30		2 μ F – 2.2 μ F			
37.5 - 42.5 x 37 x 28		1.5 μ F	1.2 μ F		
52.5 - 57.5 x 45 x 30	3 μ F – 4 μ F	3 μ F	2 μ F – 2.5 μ F	1 μ F	470 nF
52.5 - 57.5 x 50 x 35	5 μ F	4 μ F – 4.7 μ F	3 μ F – 3.5 μ F	1.5 μ F	820 nF

Film Capacitors – Power AC

Polypropylene – Through-Hole

Radial Box (cont.)

C4AT, 2 or 4 Leads, 250 – 850 VDC/160 – 450 VAC

Capacitance Range: 0.22 to 60 μF • Temperature Range: -40°C to $+85^{\circ}\text{C}$

www.kemet.com/C4AT



C4	AT	D	B	U	4100	A3	0	J
Series	Type	Rated Voltage (VDC)	Case	Number of Leads	Capacitance Code (pF)	Lead Diameter (mm)	Size Code	Tolerance
C4 = MKP Capacitors	AT = Radial box, switching application	D = 250 F = 400 G = 450 H = 600 J = 700 M = 850	B = Plastic box with epoxy resin sealing	U = 2 lead W = 4 lead	Digits 2-4 indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added.	A1 = 0.8 A3 = 1.2	See Dimension Table	J = 5% K = 10%

Case Size	Voltage (VDC/VAC)					
	250/160	400/250	450/275	600/350	700/400	850/450
27.5 - 32 x 20 x 10	1 μF – 2.2 μF	1 μF – 1.5 μF	1 μF	680 nF	470 nF	220 nF
27.5 - 32 x 22 x 13	3.3 μF	2 μF		1 μF		470 nF
27.5 - 32 x 24.5 x 15					1 μF	
27.5 - 32 x 28 x 14	5 μF	3.3 μF				
27.5 - 32 x 33 x 18	10 μF	4 μF – 5 μF	3.3 μF	2 μF – 2.2 μF	1.5 μF – 2.2 μF	1 μF
27.5 - 32 x 37 x 22		6.8 μF	6.8 μF	3.3 μF	3 μF	1.5 μF
37.5 - 41.5 x 40 x 20		10 μF	10 μF	4.7 μF – 5 μF		
37.5 - 42 x 37 x 28				6.8 μF		
37.5 - 42 x 45 x 30		20 μF	15 μF	9 μF – 10 μF		4.7 μF
37.5 - 42.5 x 37 x 28	20 μF	15 μF			5 μF	3.3 μF
37.5 - 42.5 x 45 x 30	30 μF					
52.5 - 57.5 x 45 x 30	40 μF	25 μF – 30 μF	20 μF	12 μF	9 μF – 10 μF	6.8 μF
52.5 - 57.5 x 50 x 35	50 μF – 60 μF	35 μF – 40 μF	33 μF	20 μF	15 μF	10 μF

Radial Box (cont.)

C4BS IGBT Box, 850 – 3,000 VDC/550 – 750 VAC

Capacitance Range: 0.047 to 5 μ F • Temperature Range: -40°C to +85°C

www.kemet.com/C4BS



C4	BS	M	B	X	3470	Z	E	E	J
Series	Type	Rated Voltage (VDC)	Case	Number of Leads	Capacitance Code (pF)	Internal Code	Termination Style	Size Code	Tolerance
C4 = MKP Capacitors for Power Applications	BS = Radial box with tab terminals, IGBT application	M = 850 N = 1,000 P = 1,200 W = 2,000 Y = 3,000	B = Plastic box with epoxy resin sealing	X = Standard	Digits two – four indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added.	Z = Standard	A = Style A B = Style B E = Style E F = Style F G = Style G	See Dimension Table	J = 5% K = 10%

Case Size	Voltage (VDC/VAC)				
	850/550	1,000/600	1,200/630	2,000/700	3,000/750
32 x 33 x 18	470 nF	470 nF	330 nF	100 nF – 150 nF	47 nF – 68 nF
41.5 x 40 x 20	470 nF – 1 μ F	470 nF – 1 μ F	330 nF – 680 nF	100 nF – 470 nF	47 nF – 220 nF
41.5 x 44 x 24				680 nF	
42 x 45 x 30	2 μ F – 2.2 μ F	2 μ F	1.5 μ F	820 nF	330 nF
42.5 x 37 x 28	1.5 μ F	1.5 μ F	1 μ F – 1.2 μ F		
57.5 x 45 x 30	2.5 μ F – 3.3 μ F	2.2 μ F – 3.3 μ F	2 μ F – 2.5 μ F	1 μ F – 1.2 μ F	470 nF
57.5 x 50 x 35	4 μ F – 5 μ F	4 μ F	3 μ F – 3.3 μ F	1.5 μ F	680 nF – 820 nF

Plastic Canister

C4DE Low Inductance, DC Link Applications, 400 – 1,000 VDC

Capacitance Range: 47 to 380 μ F • Temperature Range: -40°C to +85°C

www.kemet.com/C4DE



C4DE	F	P	Q	6175	A8T	K
Series	Rated Voltage (VDC)	Case & Fixing Bolt Code	Terminal Style	Capacitance Code (pF)	Internal Code	Tolerance
C4DE = MKP, DC Link Application	F = 400 H = 600 I = 800 N = 1,000	P = Cylindrical plastic case with fixing feet	Q = M8 threaded inserts	Digits two – four indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added.	A8T = Standard	K = 10%

Case Size	Voltage			
	400 VDC	600 VDC	800 VDC	1,000 VDC
84 x 40	175 μ F	100 μ F	68 μ F	47 μ F
84 x 51	260 μ F	150 μ F	100 μ F	68 μ F
84 x 64	380 μ F	220 μ F	140 μ F	100 μ F

C4DC, GTO Snubbing Applications, 850 – 1,400 VDC/500 – 700 VAC

Capacitance Range: 0.5 to 6 μ F • Temperature Range: -40°C to +85°C

www.kemet.com/C4DC



C4DC	M	A	Q	4150	AA0	J
Series	Rated Voltage (VDC)	Case	Terminal Style	Capacitance Code (pF)	Internal Code	Tolerance
C4DC = MKP, GTO Application	M = 850 N = 1000 R = 1400	A = Axial plastic case	Q = M8 Threaded Inserts	Digits 2 – 4 indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added.	AA0 = Standard	J = 5% K = 10%

Case Size	Voltage (VDC/VAC)		
	850/500	1,000/600	1,400/700
60 x 51	1.5 μ F – 2 μ F	1 μ F	500 nF – 1 μ F
60 x 64			1.5 μ F
72 x 51	3 μ F – 3.5 μ F	2 μ F	
72 x 64			2 μ F – 2.5 μ F
80 x 51	4 μ F – 5 μ F	2.5 μ F – 3 μ F	
80 x 64			3 μ F
90 x 51	6 μ F	3.5 μ F – 4 μ F	1 μ F
90 x 64			4 μ F – 5 μ F

Plastic Canister (cont.)

C4DR, GTO Clamping Applications, 400 – 3,000 VDC/160 – 1,000 VAC

Capacitance Range: 1 to 220 µF • Temperature Range: -40°C to +85°C

www.kemet.com/C4DR



C4DR	F	A	Q	5250	AA0	J
Series	Rated Voltage (VDC)	Case	Terminal Style	Capacitance Code (µF)	Internal Code	Tolerance
C4DR = MKP, Clamping Application	F = 400 H = 600 J = 700 M = 850 P = 1,200 S = 1,500 Y = 3,000	A = Axial plastic case	Q = M8 threaded inserts	Digits 2 – 4 indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added.	AA0 = Standard	J = 5% K = 10%

Case Size	Voltage (VDC/VAC)						
	400/160	600/220	700/250	850/330	1,200/440	1,500/500	3,000/1,000
60 x 49							250 nF – 470 nF
60 x 51	25 µF	12 µF	7.5 µF	4 µF – 6 µF	2.5 µF	1 µF	
72 x 51	30 µF	15 µF – 20 µF	10 µF	7.5 µF – 8 µF	3 µF – 4 µF	2 µF	
80 x 49							1 µF
80 x 51	50 µF	25 µF	15 µF		5 µF	3 µF	
80 x 61			25 µF	10 µF – 20 µF	8 µF	5 µF	
80 x 99					20 µF		
90 x 49							1.25 µF
90 x 51	75 µF	33 µF	20 µF		6 µF	4 µF	
90 x 59							2.5 µF
90 x 61	100 µF – 110 µF	50 µF	33 µF	25 µF	10 µF – 12 µF	7.5 µF	
90 x 99	220 µF	100 µF	70 µF	60 µF	25 µF	15 µF	4 µF – 5 µF

Film Capacitors – Power AC

Aluminum Canister

C44U Screw Terminal, DC Link Applications, 600 – 1,300 VDC

Capacitance Range: 50 to 600 μ F • Temperature Range: -40°C to +85°C

www.kemet.com/C44U



C4	4	U	Q	G	T	6	5	0	0	F	8	S	K
Series			DC Voltage	Case and Fixing	Terminals Code	Capacitance Code (pF)				Variants	Case Diameter	Film Type	Tolerance
C4 = MKP Capacitors for Power Applications	4 = Cylindrical types	U = DC link	H = 600 V J = 700 V O = 900 V Q = 1,100 V U = 1,300 V	G = Cylindrical case with threaded bolt M12 E = Cylindrical case without threaded bolt	T = M6 female terminals Q = M8 male terminals Y = M8 female terminals	Digits nine, ten and eleven indicate the first three digits of capacitance value. Digit eight indicates the number of zeros to be added.				A = 85°C hot spot temperature series F/G = 70°C hot spot temperature series	7 = 76 mm 8 = 85 mm	T = Standard film S = Segmented film	J = 5% K = 10%

Case Size	Voltage				
	600 VDC	700 VDC	900 VDC	1,100 VDC	1,300 VDC
76 x 55		120 μ F	75 μ F	50 μ F	
76 x 70		175 μ F	110 μ F	75 μ F	
76 x 95			200 μ F – 270 μ F	130 μ F – 175 μ F	90 μ F – 120 μ F
76 x 120		350 μ F	220 μ F	150 μ F	
76 x 140		425 μ F	275 μ F	190 μ F – 280 μ F	195 μ F
85 x 55		160 μ F	100 μ F	70 μ F	
85 x 70		225 μ F	150 μ F	100 μ F	
85 x 95			370 μ F	240 μ F	165 μ F
85 x 120		450 μ F	300 μ F – 510 μ F	200 μ F	
85 x 124.5	600 μ F				
85 x 140		550 μ F	350 μ F – 600 μ F	250 μ F – 330 μ F	250 μ F
85 x 155				420 μ F	
85 x 174				500 μ F	320 μ F
85 x 264					550 μ F

Aluminum Canister (cont.)

C44P/C20A for PFC & AC Filter, 700 – 2,300 VDC/330 – 1,000 VAC

Capacitance Range: 68 to 600 µF • Temperature Range: -40°C to +85°C

www.kemet.com/C44P



C	44	P	L		G	R	6	1	0	0	A	A	S	J
Series		Application	Rated Voltage (VAC)		Case Type	Terminal Style	Capacitance Code (pF)				Internal Code	Internal Codes		Tolerance
MKP Capacitors for Power Applications		44 = 330 – 440 VAC 20 = 550 – 1,000 VAC	AC Filter P = C44 A = C20	For C44P: L = 330 K = 440	For C20A: K = 550 L = 640 Q = 780 Z = 1,000	G = M12 bolt R = Male M10	Digits 9 – 11 indicate the first three digits of capacitance value. Digit 8 indicates the number of zeros that must be added to obtain rated capacitance in pF.				A = Standard Z = Special			J = 5% K = 10%

C44P

Case Size	Voltage (VDC/VAC)	
	700/330	1,000/440
65 x 115	100 µF	
65 x 145	200 µF	
65 x 197		120 µF
65 x 247	300 µF – 400 µF	133 µF – 150 µF
75 x 147		100 µF
75 x 247	500 µF	200 µF
85 x 247	600 µF	250 µF – 300 µF
85 x 270	600 µF	
95 x 247		400 µF

C20A

Case Size	Voltage (VDC/VAC)			
	1,280/550	1,400/640	1,700/780	2,300/1,000
65 x 117	22 µF	15 µF		20 µF
65 x 147			10 µF	
65 x 247	47 µF – 68 µF	47 µF		
75 x 117	33 µF			
75 x 147		22 µF – 33 µF	15 µF – 22 µF	15 µF – 22 µF
75 x 247	100 µF	68 µF	47 µF	33 µF
85 x 147			33 µF	
85 x 247	120 µF		68 µF	47 µF
95 x 247	150 µF	100 µF		68 µF
95 x 280		120 µF	100 µF	
116 x 280		150 µF		

Aluminum Canister (cont.)

C44H for PFC & AC Filter, 700 – 1,000 VDC/330 – 440 VAC

Capacitance Range: 250 to 600 μF • Temperature Range: -40°C to $+85^{\circ}\text{C}$

www.kemet.com/C44H



C44H	L	G	P	6100	A	A	S	J
Series	Rated Voltage	Case & Fixing Bolt Code	Terminal Style	Capacitance Code (pF)	Internal Code	Internal Code	Internal Code	Tolerance
C44H = MKP Capacitors for AC filtering	L = 330 V _{rms} K = 440 V _{rms}	G = Cylindrical aluminum case with M12 bolt	P = M6 Threaded Posts R = M10 Threaded Posts	Digits 9 – 11 indicate the first three digits of the capacitance value. Digit 8 indicates the number of zeros to be added.	A = Standard Z = Special			J = 5% K = 10%

Case Size	Voltage (VDC/VAC)	
	700/330	1,000/440
65 x 98	100 μF	
75 x 117	200 μF	
75 x 142		100 μF
75 x 194	300 μF	133 μF – 150 μF
75 x 242	400 μF – 500 μF	200 μF
85 x 142		133 μF
85 x 242	600 μF	250 μF



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