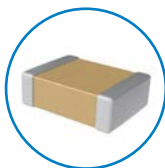
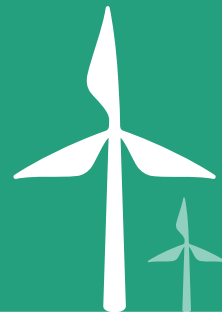

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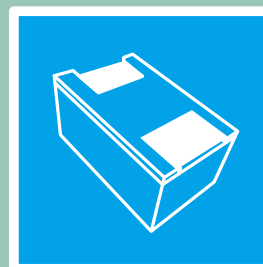
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Aluminum Capacitors

Screw Terminal

ALS30/31 High CV Value and Long Life 85°C, 25 – 500 VDC

Capacitance Range: 100 to 680,000 µF • **Temperature Range:** -40°C to +85°C

Lifetime: 40,000 Hours*

www.kemet.com/ALS30-31



ALS3	0	A	153	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 = 400 415 = 415 450 = 450 500 = 500

Case Size	Voltage						
	25	40	63	100	200	250	350
36 x 52	15 mF	10 mF	4.7 mF	2.2 mF	470 µF	470 µF	330 µF
36 x 62	22 mF	15 mF	6.8 mF	3.3 mF	680 µF	680 µF	
36 x 82	33 mF	22 mF	10 mF	4.7 mF	1 mF	1 mF	470 µF
36 x 105	47 mF		15 mF	6.8 mF	1.5 mF		680 µF
51 x 82	68 mF	33 mF – 0.047 F	15 mF – 0.022 F	10 mF	2.2 mF	1.5 mF – 2.2 mF	1 mF
51 x 105	100 mF	68 mF	33 mF	15 mF	3.3 mF	3.3 mF	1.5 mF – 2.2 mF
66 x 105	150 mF	100 mF	47 mF	22 mF	4.7 mF – 6.8 mF	4.7 mF	2.2 mF – 3.3 mF
77 x 75	150 mF	100 mF	47 mF	22 mF	4.7 mF	3.3 mF	2.2 mF
77 x 105	220 mF	150 mF	68 mF	33 mF	10 mF	6.8 mF	4.7 mF
77 x 146	330 mF	220 mF	100 mF	47 mF	15 mF	10 mF	6.8 mF
77 x 220	470 mF	330 mF	150 mF	68 mF	22 mF	15 mF – 0.022 F	10 mF
90 x 67	220 mF	100 mF	68 mF	22 mF	6.8 mF	6.8 mF	3.3 mF
90 x 75	220 mF	100 mF	47 mF	22 mF	6.8 mF	4.7 mF	3.3 mF
90 x 98	330 mF	150 mF	68 mF	33 mF	10 mF	10 mF	4.7 mF
90 x 146	470 mF	220 mF	150 mF	68 mF	22 mF	15 mF	6.8 mF
90 x 220	680 mF	470 mF	220 mF	100 mF	33 mF	22 mF	15 mF

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

Screw Terminal (cont.)

ALS30/31 High CV Value and Long Life 85°C, 25 – 500 VDC (cont.)

Capacitance Range: 100 to 680,000 μF • Temperature Range: -40°C to +85°C

Lifetime: 40,000 Hours*

www.kemet.com/ALS30-31



ALS3	0	A	153	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 = 400 415 = 415 450 = 450 500 = 500

Case Size	Voltage			
	400	415	450	500
36 x 52	220 μF	220 μF	150 μF	100 μF
36 x 62	330 μF	330 μF	220 μF	150 μF
36 x 82	470 μF	470 μF	330 μF	220 μF – 330 μF
36 x 105	680 μF	680 μF	470 μF	330 μF
51 x 82	1 mF	1 mF	680 μF	470 μF
51 x 105	1.5 mF – 2.2 mF	1.5 mF	1 mF	680 μF
63.5 x 105	3.3 mF			
66 x 105	2.2 mF	2.2 mF	1.5 mF – 2.2 mF	1 mF
77 x 75	1.5 mF	1.5 mF	1.5 mF	1 mF
77 x 105	3.3 mF – 4.7 mF	3.3 mF	2.2 mF – 3.3 mF	1.5 mF
77 x 115	4.7 mF		4.7 mF	
77 x 146	4.7 mF – 6.8 mF	4.7 mF	3.3 mF – 4.7 mF	2.2 mF – 3.3 mF
77 x 220	6.8 mF – 0.01 F	6.8 mF	6.8 mF	4.7 mF
90 x 67	3.3 mF	2.2 mF	2.2 mF	1.5 mF
90 x 75	2.2 mF	2.2 mF	2.2 mF – 3.3 mF	1.5 mF
90 x 98	3.3 mF – 4.7 mF	3.3 mF	3.3 mF	2.2 mF
90 x 146	6.8 mF	6.8 mF	4.7 mF	3.3 mF
90 x 220	10 mF	10 mF	10 mF	6.8 mF

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

Screw Terminal (cont.)

ALS32/33 High CV Value and Long Life 85°C, 350 – 500 VDC

(Primarily for Asian Market)

Capacitance Range: 220 to 18,000 μF • **Temperature Range:** -40°C to +85°C

Lifetime: 20,000 Hours*

www.kemet.com/ALS32-33



ALS3	2	A	391	D2C	350
Series	Stud Option	Termination	Capacitance Code (μF)	Size Code	Rated Voltage (VDC)
Screw Terminal Aluminum Electrolytic	2 = Plain Can 3 = Threaded mounting stud	See Termination Table	First two digits represent significant figures. Third digit specifies number of zeros.	See Dimension Table	350 = 350 400 = 400 450 = 450 500 = 500

Case Size	Voltage			
	350	400	450	500
34.9 x 54	390 μF	330 μF	270 μF	220 μF
34.9 x 79.4	470 μF – 680 μF	390 μF – 560 μF	330 μF – 470 μF	270 μF – 390 μF
34.9 x 92.1	820 μF – 1 mF	680 μF – 820 μF	560 μF – 680 μF	470 μF – 560 μF
50.8 x 66.7	1.2 mF – 1.5 mF	1 mF – 1.2 mF	820 μF – 1 mF	680 μF – 820 μF
50.8 x 92.1	1.8 mF – 2.2 mF	1.5 mF – 1.8 mF	1.2 mF	1 mF
50.8 x 114.3			1.5 mF	1.2 mF
50.8 x 130.2	2.7 mF – 3.3 mF	2.2 mF	1.8 mF	1.5 mF
63.5 x 92.1		2.7 mF	2.2 mF	1.8 mF
63.5 x 114.3	3.9 mF	3.3 mF	2.7 mF	2.2 mF
63.5 x 130.2		3.9 mF	3.3 mF	2.7 mF
76.2 x 114.3	5.6 mF	4.7 mF	3.9 mF	3.3 mF
76.2 x 130.2	6.8 mF	5.6 mF	4.7 mF	3.9 mF
76.2 x 149.2	8.2 mF	6.8 mF	5.6 mF	4.7 mF
88.9 x 149.2	10 mF – 0.012 F	8.2 mF – 0.01 F	6.8 mF – 8.2 mF	5.6 mF – 6.8 mF
88.9 x 193.7	15 mF	12 mF	10 mF	8.2 mF
88.9 x 219.1	18 mF	15 mF	12 mF	10 mF

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

Screw Terminal (cont.)

ALS36/37 High Ripple Current and Surge Voltage Capability 85°C, 25 – 500 VDC

(Primarily for American Market – Imperial Sizes)

Capacitance Range: 150 to 470,000 µF • Temperature Range: -40°C to +85°C

Lifetime: 20,000 Hours*

www.kemet.com/ALS36-37



ALS3	6	A	153	D2C	025	
Series	Stud Option	Termination	Capacitance Code (µF)	Size Code	Rated Voltage (VDC)	
Screw Terminal Aluminum Electrolytic	6 = Plain Can 7 = Threaded mounting stud	See Termination Table	First two digits represent significant figures. Third digit specifies number of zeros.	See Dimension Table	025 = 25 040 = 40 050 = 50 063 = 63 075 = 75 100 = 100 160 = 160	200 = 200 250 = 250 350 = 350 400 = 400 450 = 450 500 = 500

Case Size	Voltage													
	25	40	50	63	75	100	160	200	250	350	400	450	500	
34.925 x 53.975	15 mF	10 mF	6.8 mF	4.7 mF	3.3 mF	2.2 mF	1 mF	680 µF	680 µF	330 µF	330 µF	220 µF	150 µF	
34.925 x 66.675	22 mF			6.8 mF	4.7 mF	3.3 mF	1.5 mF	1 mF		470 µF			220 µF	
34.925 x 79.375	33 mF	15 mF	10 mF		6.8 mF	4.7 mF		1.5 mF	1 mF	680 µF	470 µF	330 µF		
34.925 x 92.075				10 mF			2.2 mF					470 µF	330 µF	
34.925 x 104.775	47 mF	22 mF	15 mF			6.8 mF			1.5 mF	1 mF	680 µF			
34.925 x 117.475					10 mF		3.3 mF	2.2 mF					470 µF	
34.925 x 130.175				15 mF							1 mF	680 µF		
34.925 x 142.875	68 mF	33 mF	22 mF			10 mF			2.2 mF	1.5 mF				
50.8 x 53.975	33 mF	22 mF	15 mF	10 mF	4.7 mF	3.3 mF	1.5 mF	1 mF	1 mF	470 µF	470 µF	330 µF	330 µF	
50.8 x 66.675	47 mF	33 mF	22 mF	15 mF	6.8 mF	6.8 mF	2.2 mF	1.5 mF	1.5 mF	680 µF	680 µF	470 µF	470 µF	
50.8 x 79.375	68 mF	47 mF	33 mF	22 mF	10 mF	10 mF	3.3 mF	2.2 mF	2.2 mF	1 mF	1 mF	680 µF		
50.8 x 92.075					15 mF		4.7 mF			1.5 mF				
50.8 x 104.775	100 mF	68 mF	47 mF	33 mF		15 mF		3.3 mF			1.5 mF	1 mF	680 µF	
50.8 x 117.475					22 mF		6.8 mF	4.7 mF		2.2 mF				
50.8 x 130.175			68 mF	47 mF							2.2 mF	1.5 mF	1 mF	
50.8 x 142.875	150 mF	100 mF							4.7 mF					
63.5 x 79.375	100 mF	68 mF	33 mF	22 mF	22 mF	15 mF	6.8 mF	4.7 mF	3.3 mF	2.2 mF	1.5 mF	1 mF	680 µF	
63.5 x 92.075	150 mF		47 mF	33 mF					4.7 mF		2.2 mF	1.5 mF	1 mF	
63.5 x 104.775		100 mF	68 mF	47 mF	33 mF	22 mF	10 mF	6.8 mF		3.3 mF			1.5 mF	
63.5 x 117.475											3.3 mF			
63.5 x 142.875	220 mF								6.8 mF					
76.2 x 92.075	220 mF	150 mF	68 mF	47 mF	33 mF	22 mF	10 mF	6.8 mF	6.8 mF	4.7 mF	3.3 mF	2.2 mF	1.5 mF	
76.2 x 104.775				68 mF	47 mF	33 mF	15 mF	10 mF				3.3 mF		
76.2 x 117.475			100 mF										2.2 mF	
76.2 x 130.175											4.7 mF			
76.2 x 142.875	330 mF	220 mF					22 mF	15 mF	10 mF	6.8 mF	6.8 mF	4.7 mF		
76.2 x 168.275			150 mF	100 mF	68 mF	47 mF		22 mF	15 mF	10 mF		6.8 mF	3.3 mF	
76.2 x 219.075	470 mF	330 mF			100 mF	68 mF							4.7 mF	

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

Screw Terminal (cont.)

ALS60/61 High CV Value 85°C, 550 VDC

Capacitance Range: 560 to 3,300 μF • Temperature Range: -40°C to +85°C

Lifetime: 20,000 Hours*

www.kemet.com/ALS60-61



ALS6	0	A	561	KE	550
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	550 = 550

Case Size	Voltage
	550
51 x 82	560 μF
51 x 105	680 μF – 820 μF
51 x 115	1 mF
51 x 131	1.2 mF
66 x 82	1 mF
66 x 105	1.2 mF
66 x 115	1.5 mF
66 x 131	1.8 mF
66 x 146	2.2 mF
77 x 105	1.8 mF
77 x 115	2.2 mF
77 x 131	2.7 mF
77 x 146	3.3 mF
90 x 98	2.2 mF

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

Screw Terminal (cont.)

ALS40/41 High CV Value and Long Life 105°C, 25 – 500 VDC

Capacitance Range: 150 to 680,000 µF • **Temperature Range:** -40°C to +105°C

Lifetime: 9,000 Hours*

www.kemet.com/ALS40-41



ALS4	0	A	153	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 = 100 160 = 160 200 = 200	250 = 250 350 = 350 400 = 400 415 = 415 450 = 450 500 = 500

Case Size	Voltage										
	25	40	63	100	200	250	350	400	415	450	500
36 x 52	15 mF	10 mF	3.3 mF	1.5 mF	680 µF	470 µF	220 µF	220 µF	220 µF	150 µF	220 µF
36 x 62	22 mF	10 mF	4.7 mF	2.2 mF	680 µF	680 µF	330 µF	220 µF	220 µF	150 µF	220 µF
36 x 82	33 mF	15 mF	6.8 mF	3.3 mF	1 mF	1 mF	470 µF	470 µF	330 µF	220 µF	330 µF
36 x 105	47 mF	22 mF	10 mF	4.7 mF	1.5 mF	1 mF	680 µF	470 µF	470 µF	330 µF	470 µF
51 x 82	68 mF	33 mF	15 mF	6.8 mF	2.2 mF	1.5 mF	1 mF	680 µF	680 µF	470 µF	680 µF
51 x 105	100 mF	47 mF	22 mF	10 mF	3.3 mF	2.2 mF	1.5 mF	1 mF	1 mF	680 µF	1 mF
66 x 105	150 mF	100 mF	33 mF	15 mF	6.8 mF	4.7 mF	2.2 mF	2.2 mF	2.2 mF	1.5 mF	
77 x 75	150 mF	68 mF	22 mF	15 mF	4.7 mF	3.3 mF	2.2 mF	1.5 mF	1.5 mF	1 mF	1.5 mF
77 x 105	220 mF	100 mF	47 mF	22 mF	6.8 mF	6.8 mF	3.3 mF	2.2 mF	2.2 mF	1.5 mF	2.2 mF
77 x 146	330 mF	150 mF	68 mF	33 mF	10 mF	10 mF	4.7 mF	4.7 mF	3.3 mF	2.2 mF – 3.3 mF	3.3 mF
77 x 220	470 mF	220 mF	100 mF	47 mF	22 mF	15 mF	6.8 mF	6.8 mF	6.8 mF	4.7 mF	4.7 mF
90 x 67	220 mF	100 mF	33 mF	22 mF	6.8 mF	4.7 mF	2.2 mF	2.2 mF	2.2 mF	1.5 mF	1.5 mF
90 x 75	150 mF	100 mF	33 mF	15 mF	6.8 mF	4.7 mF	2.2 mF	2.2 mF	2.2 mF	1.5 mF	2.2 mF
90 x 98	330 mF	150 mF	47 mF	22 mF	10 mF	6.8 mF	4.7 mF	3.3 mF	3.3 mF	2.2 mF	3.3 mF
90 x 146	470 mF	220 mF	100 mF	47 mF	15 mF	15 mF	6.8 mF	6.8 mF	4.7 mF	3.3 mF	3.3 mF
90 x 220	680 mF	330 mF	150 mF	100 mF	33 mF	22 mF	10 mF	10 mF	10 mF	6.8 mF	6.8 mF

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

Screw Terminal (cont.)

PEH205 High Temperature and High Performance 125°C, 16 – 100 VDC

Capacitance Range: 1,500 to 390,000 μ F • Temperature Range: -40°C to +125°C

Lifetime: 8,000 Hours*

www.kemet.com/PEH205



PEH205	G	A	518	0	Q	U0
Series	Rated Voltage (VDC)	Size Code	Capacitance Code (μ F)	Version	Capacitance Tolerance	Stud Option
Screw Terminal Aluminum Electrolytic	G = 16 H = 25 K = 40 L = 55 M = 63 P = 100	See Dimension Table	The last two digits represent significant figures. The first digit specifies the total number of digits.	0 = Standard	Q = -10 + 30%	U0 = Plain Can B0 = Threaded mounting stud

Case Size	Voltage					
	16	25	40	55	63	100
35 x 51.5	18 mF	10 mF	4.7 mF	3.3 mF	2.2 mF	1.5 mF
35 x 73.5	33 mF	18 mF	10 mF	5.6 mF	4.7 mF	2.2 mF
35 x 94.5	39 mF	22 mF	15 mF	8.2 mF	6.8 mF	3.3 mF
50 x 74.5	68 mF	39 mF	22 mF	12 mF	10 mF	4.7 mF
65 x 106	180 mF	120 mF	47 mF	33 mF	22 mF	15 mF
75 x 106	270 mF	180 mF	68 mF	47 mF	33 mF	22 mF
75 x 146	390 mF	270 mF	100 mF	68 mF	47 mF	33 mF

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

Snap-In

ELH General Purpose Low Impedance 85°C, 6.3 – 450 VDC

Capacitance Range: 47 to 120,000 µF • Temperature Range: -40°C to +85°C and -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		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	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	18 mF	10 mF	8.2 mF	5.6 mF	3.9 mF
30 x 50	82 mF	68 mF	47 mF	27 mF	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	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 – 450 VDC (cont.)

Capacitance Range: 47 to 120,000 µF • Temperature Range: -40°C to +85°C and -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 – 330 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	100 µF – 150 µF	
22 x 40	680 µF	560 µF	560 µF	470 µF	180 µF	180 µF	180 µF	120 µF	100 µF
22 x 45	820 µF	680 µF	680 µF	560 µF	220 µF	180 µF	220 µF	150 µF – 220 µF	
22 x 50	1 mF	820 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		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		330 µF	220 µF – 330 µF		
25 x 50			1 mF – 1.2 mF		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	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	680 µF	270 µF	270 µF		180 µF	
30 x 40		1.2 mF	1 mF – 1.2 mF		330 µF – 390 µF	330 µF – 390 µF	270 µF – 330 µF	220 µF – 330 µF	180 µF
30 x 45	1.5 mF	1.5 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			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	820 µF	330 µF – 390 µF	270 µF – 330 µF		220 µF	180 µF
35 x 35	1.5 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	1.2 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	1.5 mF	680 µF	560 µF	560 µF	390 µF	330 µF
35 x 50	2.7 mF	2.2 mF	2.2 mF			680 µF		470 µF – 560 µF	390 µF
35 x 60								680 µF	

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

Snap-In (cont.)

PEH506 Low ESR and ESL 85°C, 35 – 450 VDC

Capacitance Range: 68 to 27,000 µF • Temperature Range: -40°C to +85°C

Lifetime: 3,000 Hours*

www.kemet.com/PEH506



PEH506	J	AC	433	0	M	2
Series	Rated Voltage (VDC)	Size Code	Capacitance Code (µF)	Version	Capacitance Tolerance	Termination
Snap-In type Aluminum Electrolytic	J = 35 M = 63 P = 100 R = 200 S = 250 U = 350 V = 400 Y = 450	See Dimension Table	The last two digits represent significant figures. The first digit indicates the total number digits.	0 = Standard	M = ±20%	See Termination Table

Case Size	Voltage							
	35	63	100	200	250	350	400	450
22 x 25		1.2 mF	560 µF			82 µF		
22 x 30	3.3 mF – 3.9 mF	1.5 mF – 1.8 mF	680 µF	270 µF	220 µF	100 µF	82 µF – 100 µF	68 µF – 82 µF
22 x 35	4.7 mF	2.2 mF	820 µF	330 µF – 390 µF	270 µF	150 µF	120 µF	100 µF
22 x 40	5.6 mF	2.7 mF	1 mF – 1.2 mF	470 µF	330 µF	180 µF	150 µF	120 µF
22 x 45			1.5 mF	560 µF	390 µF	220 µF	180 µF	150 µF
22 x 50	8.2 mF	3.3 mF		680 µF	470 µF – 560 µF	270 µF	220 µF	180 µF
25 x 25			680 µF	270 µF	220 µF		100 µF	68 µF – 82 µF
25 x 30	4.7 mF – 5.6 mF	2.2 mF	820 µF – 1 mF	330 µF – 390 µF	270 µF – 330 µF	150 µF	120 µF	100 µF – 120 µF
25 x 35	6.8 mF	2.7 mF	1.2 mF	470 µF	390 µF	220 µF	150 µF	150 µF
25 x 40	8.2 mF	3.3 mF	1.5 mF	560 µF	470 µF	270 µF	220 µF	180 µF
25 x 45	10 mF	3.9 mF	1.8 mF	680 µF	560 µF		270 µF	220 µF
25 x 50	12 mF	4.7 mF	2.2 mF	820 µF	680 µF	330 µF – 390 µF		
30 x 25					330 µF		120 µF – 150 µF	120 µF
30 x 30	6.8 mF	3.3 mF		470 µF	470 µF	220 µF	180 µF	150 µF – 180 µF
30 x 35	10 mF	3.9 mF	1.8 mF	680 µF – 820 µF			220 µF – 270 µF	220 µF
30 x 40	12 mF	4.7 mF – 5.6 mF	2.2 mF	1 mF	680 µF	330 µF – 390 µF	330 µF	270 µF
30 x 45	15 mF	6.8 mF	2.7 mF	1.2 mF	820 µF	470 µF		
30 x 50			3.3 mF		1 mF	560 µF	390 µF	330 µF
35 x 25							220 µF	
35 x 30	10 mF – 0.012 F	4.7 mF	2.2 mF		680 µF	330 µF		220 µF
35 x 35	15 mF	5.6 mF	2.7 mF	1 mF	820 µF	470 µF	330 µF	270 µF
35 x 40	18 mF	6.8 mF	3.3 mF	1.2 mF	1 mF	560 µF	390 µF	330 µF – 390 µF
35 x 45	22 mF	8.2 mF	3.9 mF	1.5 mF	1.2 mF	680 µF	470 µF	
35 x 50	27 mF	10 mF	4.7 mF	1.8 mF	1.5 mF		560 µF	470 µF
35 x 55				2.2 mF				

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

Snap-In (cont.)

ALC10 High Ripple and Long Life 85°C, 35 – 550 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 type 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

Case Size	Voltage										
	35	40	63	100	200	250	350	400	450	500	550
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
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
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
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
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
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
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
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
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
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
35 x 60						1.2 mF	820 µF	560 µF – 680 µF	470 µF	390 µF	330 µF
35 x 80						1.8 mF	1 mF	820 µF – 1 mF	680 µF	560 µF	470 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
40 x 35		18 mF	10 mF	3.3 mF	1 mF		390 µF	330 µF	270 µF	220 µF	220 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
40 x 45				4.7 mF	1.5 mF	1 mF	560 µF	470 µF	390 µF	330 µF	330 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
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
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
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
45 x 105					5.6 mF	4.7 mF	2.7 mF	2.2 mF	1.8 mF	1.5 mF	1.2 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

* 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 µF • Temperature Range: -40°C to +105°C and -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								
	6.3	10	16	25	35	50	63	80	100
22 x 25	12 mF		6.8 mF	4.7 mF	3.3 mF	1.8 mF	1.2 mF	820 µF	560 µF – 680 µF
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 µF
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 µF
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	1.8 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
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

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

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 and -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 – 180 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	100 µF	82 µF – 120 µF		68 µF – 100 µF	56 µF
22 x 35	470 µF	470 µF	390 µF – 470 µF	270 µF	120 µF	100 µF – 150 µF	150 µF	82 µF – 120 µF	82 µF
22 x 40	560 µF	560 µF	470 µF	330 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	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 – 330 µF	220 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 – 150 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	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		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 – 470 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	330 µF	270 µF	220 µF – 330 µF	220 µF	180 µF
30 x 45	1.5 mF	1.2 mF – 1.5 mF	1 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		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	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	680 µF – 820 µF	330 µF – 390 µF	270 µF – 330 µF	330 µF	270 µF	220 µF
35 x 40		1.5 mF	1.2 mF	1 mF	470 µF	390 µF – 470 µF	470 µF	330 µF	270 µF
35 x 45	1.8 mF		1.5 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	470 µF

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

Snap-In (cont.)

PEH532 Low ESR and ESL 105°C, 35 – 450 VDC

Capacitance Range: 68 to 27,000 µF • Temperature Range: -40°C to +105°C

Lifetime: 1,500 Hours*

www.kemet.com/PEH532



PEH532	J	AC	433	0	M	2
Series	Rated Voltage (VDC)	Size Code	Capacitance Code (µF)	Version	Capacitance Tolerance	Termination
Snap-In type Aluminum Electrolytic	J = 35 M = 63 P = 100 R = 200 S = 250 U = 350 V = 400 Y = 450	See Dimension Table	The last two digits represent significant figures. The first digit indicates the total number digits.	0 = Standard	M = ±20%	See Termination Table

Case Size	Voltage							
	35	63	100	200	250	350	400	450
22 x 25		1.2 mF	560 µF			82 µF		
22 x 30	3.3 mF – 3.9 mF	1.5 mF – 1.8 mF	680 µF	270 µF	220 µF	100 µF	82 µF – 100 µF	68 µF – 82 µF
22 x 35	4.7 mF	2.2 mF	820 µF	330 µF – 390 µF	270 µF	150 µF	120 µF	100 µF
22 x 40	5.6 mF – 6.8 mF	2.7 mF	1 mF – 1.2 mF	470 µF	330 µF	180 µF	150 µF	120 µF
22 x 45			1.5 mF	560 µF	390 µF	220 µF	180 µF	150 µF
22 x 50	8.2 mF	3.3 mF		680 µF	470 µF – 560 µF	270 µF	220 µF	180 µF
25 x 25			680 µF	270 µF	220 µF		100 µF	68 µF – 82 µF
25 x 30	4.7 mF – 5.6 mF	2.2 mF	820 µF – 1 mF	330 µF – 390 µF	270 µF – 330 µF	150 µF	120 µF	100 µF – 120 µF
25 x 35	6.8 mF	2.7 mF	1.2 mF	470 µF	390 µF	220 µF	150 µF	150 µF
25 x 40	8.2 mF	3.3 mF	1.5 mF	560 µF	470 µF	270 µF	220 µF	180 µF
25 x 45	10 mF	3.9 mF	1.8 mF	680 µF	560 µF		270 µF	220 µF
25 x 50	12 mF	4.7 mF	2.2 mF	820 µF	680 µF	330 µF – 390 µF		
30 x 25					330 µF		120 µF – 150 µF	120 µF
30 x 30	6.8 mF – 8.2 mF	3.3 mF		470 µF	470 µF	220 µF	180 µF	150 µF – 180 µF
30 x 35	10 mF	3.9 mF	1.8 mF	680 µF – 820 µF			220 µF – 270 µF	220 µF
30 x 40	12 mF	4.7 mF – 5.6 mF	2.2 mF	1 mF	680 µF	330 µF – 390 µF	330 µF	270 µF
30 x 45	15 mF	6.8 mF	2.7 mF	1.2 mF	820 µF	470 µF		
30 x 50			3.3 mF		1 mF	560 µF	390 µF	330 µF
35 x 25							220 µF	
35 x 30	10 mF – 0.012 F	4.7 mF	2.2 mF		680 µF	330 µF		220 µF
35 x 35	15 mF	5.6 mF	2.7 mF	1 mF	820 µF	470 µF	330 µF	270 µF
35 x 40	18 mF	6.8 mF	3.3 mF	1.2 mF	1 mF	560 µF	390 µF	330 µF – 390 µF
35 x 45	22 mF	8.2 mF	3.9 mF	1.5 mF	1.2 mF	680 µF	470 µF	
35 x 50	27 mF	10 mF	4.7 mF	1.8 mF	1.5 mF		560 µF	470 µF
35 x 55				2.2 mF				

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

Snap-In (cont.)

PEH534 Low ESR and ESL 105°C, 35 – 450 VDC

Capacitance Range: 150 to 22,000 μF • Temperature Range: -40°C to +105°C

Lifetime: 3,000 Hours*

www.kemet.com/PEH534



PEH534	J	BC	456	0	M	2
Series	Rated Voltage (VDC)	Size Code	Capacitance Code (μF)	Version	Capacitance Tolerance	Termination
Snap-In type Aluminum Electrolytic	J = 35 M = 63 P = 100 R = 200 S = 250 U = 350 V = 400 Y = 450	See Dimension Table	The last two digits represent significant figures. The first digit indicates the total number digits.	0 = Standard	M = $\pm 20\%$	See Termination Table

Case Size	Voltage							
	35	63	100	200	250	350	400	450
25 x 30	5.6 mF	2.2 mF						
25 x 35	6.8 mF			470 μF			150 μF	
25 x 40	8.2 mF	3.3 mF	1.5 mF	560 μF	390 μF	220 μF		150 μF
25 x 45	10 mF			680 μF	470 μF		220 μF	
25 x 50					560 μF			
30 x 25	6.8 mF						150 μF	
30 x 30	8.2 mF	3.3 mF	1.5 mF	560 μF	390 μF	220 μF		150 μF
30 x 35	10 mF			680 μF	470 μF		220 μF	
30 x 40		4.7 mF	2.2 mF	820 μF	560 μF	330 μF		220 μF
30 x 45	15 mF	5.6 mF			680 μF	390 μF	330 μF	
30 x 50		6.8 mF	3.3 mF	1 mF	820 μF		390 μF	330 μF
35 x 25	8.2 mF					220 μF		150 μF
35 x 30		4.7 mF	2.2 mF	680 μF – 820 μF	470 μF	330 μF	220 μF	220 μF
35 x 35	15 mF	5.6 mF		1 mF	680 μF	390 μF	330 μF	
35 x 40		6.8 mF	3.3 mF		820 μF	470 μF	390 μF	330 μF
35 x 45		8.2 mF	3.9 mF	1.5 mF	1 mF	560 μF	470 μF	390 μF
35 x 50	22 mF	10 mF	4.7 mF				560 μF	470 μF

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

Snap-In (cont.)

PEH536 Low ESR and ESL 105°C, 35 – 450 VDC

Capacitance Range: 47 to 18,000 µF • Temperature Range: -40°C to +105°C

Lifetime: 4,600 Hours*

www.kemet.com/PEH536



PEH536	J	AD	439	0	M	2
Series	Rated Voltage (VDC)	Size Code	Capacitance Code (µF)	Version	Capacitance Tolerance	Termination
Snap-In type Aluminum Electrolytic	J = 35 M = 63 P = 100 R = 200 S = 250 U = 350 V = 400 Y = 450	See Dimension Table	The last two digits represent significant figures. The first digit indicates the total number digits.	0 = Standard	M = ±20%	See Termination Table

Case Size	Voltage							
	35	63	100	200	250	350	400	450
22 x 30			560 µF	220 µF	150 µF	100 µF	68 µF	47 µF
22 x 35	3.9 mF	1.8 mF	680 µF			120 µF	82 µF – 100 µF	
22 x 40	4.7 mF		820 µF	330 µF	220 µF	150 µF	120 µF	68 µF
22 x 45						180 µF		100 µF
22 x 50		2.7 mF		470 µF		220 µF	150 µF	120 µF
25 x 25			560 µF			100 µF	68 µF	
25 x 30	3.9 mF	1.8 mF	680 µF – 820 µF	270 µF	220 µF	150 µF	100 µF	68 µF
25 x 35	5.6 mF	2.2 mF	1 mF	330 µF	270 µF			100 µF
25 x 40	6.8 mF	2.7 mF	1.2 mF	470 µF	330 µF	220 µF	150 µF	
25 x 45	8.2 mF			560 µF	390 µF			150 µF
25 x 50	10 mF	3.3 mF	1.5 mF	680 µF	470 µF	270 µF	220 µF	
30 x 25		1.8 mF	820 µF					
30 x 30	5.6 mF	2.2 mF	1 mF		330 µF		150 µF	
30 x 35	6.8 mF – 8.2 mF	2.7 mF – 3.3 mF	1.2 mF	560 µF			180 µF	150 µF
30 x 40	10 mF	3.9 mF	1.5 mF	680 µF	470 µF	270 µF	220 µF	180 µF
30 x 45	12 mF	4.7 mF		820 µF	560 µF	330 µF	270 µF	220 µF
30 x 50			2.2 mF	1 mF	680 µF		330 µF	270 µF
35 x 25	5.6 mF	2.2 mF						
35 x 30	8.2 mF	3.9 mF					180 µF	
35 x 35	12 mF	4.7 mF		680 µF – 820 µF		330 µF		
35 x 40	15 mF		2.2 mF	1 mF	680 µF	470 µF	330 µF	220 µF
35 x 45		6.8 mF	2.7 mF		820 µF	560 µF	390 µF	270 µF
35 x 50	18 mF	8.2 mF	3.3 mF	1.2 mF	1 mF	560 µF	470 µF	330 µF
35 x 55			4.7 mF				560 µF	390 µF
35 x 60						680 µF		470 µF
40 x 60							680 µF	560 µF
40 x 70								680 µF
40 x 80						1 mF	1 mF	
40 x 100							1.5 mF	1 mF

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

Snap-In (cont.)

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

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

Lifetime: 9,000 Hours*

www.kemet.com/ALC40



ALC40	A	822	BB	025	
Series	Termination	Capacitance Code (µF)	Size Code	Rated Voltage (VDC)	
Snap-In type 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 µF	270 µF	220 µF	120 µF	100 µF	47 µF	56 µF
25 x 35	10 mF	5.6 mF	3.3 mF	1 mF	390 µF	270 µF	150 µF	120 µF	56 µF	68 µF
25 x 40	12 mF	6.8 mF	3.9 mF	1.2 mF	470 µF	330 µF	180 µF	150 µF	68 µF	82 µF
30 x 30	12 mF	5.6 mF	3.9 mF	1.2 mF	470 µF	330 µF	180 µF	150 µF	68 µF	82 µF
30 x 35	15 mF	6.8 mF – 8.2 mF	4.7 mF	1.5 mF	560 µF	390 µF	220 µF	180 µF	82 µF	120 µF
30 x 40	18 mF	10 mF	5.6 mF	1.8 mF	680 µF	470 µF	270 µF	220 µF	100 µF	
30 x 50	27 mF	12 mF	6.8 mF – 8.2 mF	2.2 mF	820 µF	560 µF	390 µF	330 µF	150 µF	180 µF
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.

Snap-In (cont.)

PEH526 Automotive High Temperature and High Vibration 125°C, 25 – 63 VDC

Capacitance Range: 820 to 6,800 μ F • Temperature Range: -40°C to +125°C

Lifetime: 3,000 Hours*

www.kemet.com/PEH526



PEH526	H	AB	427	0	M	3
Series	Rated Voltage (VDC)	Size Code	Capacitance Code (μ F)	Version	Capacitance Tolerance	Termination
Snap-In type Aluminum Electrolytic	H = 25 K = 40 M = 63	See Dimension Table	The last two digits represent significant figures. The first digit specifies the total number of digits.	0 = Standard	M = $\pm 20\%$	3 = 3 Pin

Case Size	Voltage		
	25	40	63
22 x 25	2.7 mF	1.2 mF – 1.8 mF	820 μ F
22 x 30	3.9 mF	1.5 mF – 2.2 mF	1.2 mF
25 x 25	3.9 mF	1.5 mF – 2.2 mF	1.2 mF
25 x 35	6.8 mF	1.8 mF – 3.9 mF	2.2 mF
30 x 25	5.6 mF	2.2 mF – 3.3 mF	1.8 mF

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

Surface Mount

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

Capacitance Range: 1 to 2,200 μ F • Temperature Range: -40°C to +105°C and -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 = $\pm$ 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
4 x 5.4	22 μ F – 47 μ F	22 μ F	10 μ F – 22 μ F	4.7 μ F – 10 μ F	4.7 μ F – 6.8 μ F	1 μ F – 3.3 μ F
5 x 5.4	47 μ F	33 μ F – 47 μ F	22 μ F – 47 μ F	10 μ F – 22 μ F	10 μ F	4.7 μ F – 10 μ F
6.3 x 5.4	100 μ F – 220 μ F	47 μ F – 100 μ F	47 μ F – 100 μ F	22 μ F – 47 μ F	22 μ F	10 μ F – 22 μ F
6.3 x 7.7	220 μ F – 330 μ F	100 μ F – 220 μ F	100 μ F	47 μ F – 100 μ F	33 μ F – 47 μ F	22 μ F – 47 μ F
8 x 10.2	330 μ F – 470 μ F	220 μ F – 470 μ F	220 μ F – 470 μ F	100 μ F – 220 μ F	47 μ F – 220 μ F	47 μ F – 100 μ F
10 x 10.2	470 μ F – 1.5 mF	470 μ F – 1 mF	220 μ F – 470 μ F	220 μ F – 470 μ F	100 μ F – 330 μ F	100 μ F – 220 μ F
12.5 x 13.5	2.2 mF	2.2 mF	1 mF	1 mF	470 μ F – 680 μ F	330 μ F
12.5 x 16				1.5 mF		470 μ F
16 x 16.5			2.2 mF	2.2 mF	1 mF – 1.5 mF	1 mF

Case Size	Voltage						
	63	100	160	200	250	400	450
8 x 10.2	33 μ F – 47 μ F	22 μ F – 33 μ F					
10 x 10.2	100 μ F – 150 μ F	33 μ F – 47 μ F					
12.5 x 13.5	220 μ F	47 μ F – 100 μ F	33 μ F	10 μ F	3.3 μ F – 22 μ F	3.3 μ F – 10 μ F	3.3 μ F – 4.7 μ F
12.5 x 16	220 μ F			22 μ F – 33 μ F			10 μ F
16 x 16.5	330 μ F – 470 μ F		47 μ F – 100 μ F	47 μ F	33 μ F – 47 μ F	22 μ F – 33 μ F	22 μ F

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

Surface Mount (cont.)

EEV Low Profile and Ultra Low Impedance 105°C, 6.3 – 35 VDC

Capacitance Range: 4.7 to 1,500 μF • Temperature Range: -55°C to +105°C

Lifetime: 2,000 Hours T_R , U_R and I_R

www.kemet.com/EEV



EEV	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 = $\pm 20\%$	6R3 = 6.3 010 = 10 016 = 16 025 = 25 035 = 35 050 = 50	A = Standard S = AEC-Q200	See Dimension Table	AA = Tape & Reel

Case Size	Voltage					
	6.3	10	16	25	35	50
4 x 5.4	22 μF – 47 μF	22 μF – 33 μF	22 μF	10 μF	4.7 μF – 10 μF	
5 x 5.4	47 μF – 100 μF	33 μF	22 μF – 47 μF	22 μF – 33 μF	10 μF – 22 μF	
6.3 x 5.4	100 μF	47 μF – 100 μF	47 μF – 100 μF	33 μF – 68 μF	33 μF – 47 μF	10 μF – 22 μF
6.3 x 5.8	270 μF					
6.3 x 7.7	150 μF – 330 μF	150 μF – 220 μF	150 μF – 220 μF	100 μF	68 μF – 100 μF	33 μF
8 x 6.2						47 μF
8 x 10.2	470 μF – 1 mF	330 μF – 470 μF	220 μF – 470 μF	150 μF – 330 μF	100 μF – 220 μF	100 μF
10 x 10.2	1.5 mF	680 μF – 1 mF	680 μF	470 μF	330 μF	220 μF

EXV Low Profile and Ultra Low Impedance 105°C, 6.3 – 50 VDC

Capacitance Range: 1 to 1,000 μF • Temperature Range: -55°C to +105°C

Lifetime: 5,000 Hours T_R , U_R and I_R

www.kemet.com/EXV



EXV	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 = $\pm 20\%$	6R3 = 6.3 010 = 10 016 = 16 025 = 25 035 = 35 050 = 50	A = Standard S = AEC-Q200	See Dimension Table	AA = Tape & Reel

Case Size	Voltage					
	6.3	10	16	25	35	50
4 x 5.4	22 μF – 33 μF	22 μF	10 μF	10 μF	4.7 μF	1 μF – 3.3 μF
5 x 5.4	47 μF	33 μF	22 μF	22 μF	10 μF – 22 μF	4.7 μF
6.3 x 5.4	100 μF	47 μF – 100 μF	33 μF – 47 μF	33 μF – 47 μF	33 μF	10 μF
6.3 x 7.7	150 μF – 220 μF	150 μF	100 μF	68 μF – 100 μF	47 μF – 68 μF	22 μF
8 x 10.2	330 μF – 470 μF	220 μF – 330 μF	150 μF – 330 μF	150 μF – 220 μF	100 μF	33 μF
10 x 10.2	680 μF – 1 mF	470 μF – 1 mF	470 μF – 680 μF	330 μF – 470 μF	150 μF – 330 μF	47 μF – 220 μF

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

Surface Mount (cont.)

EDT Low Profile and High Temperature 125°C, 10 – 50 VDC

Capacitance Range: 47 to 1,000 μF • **Temperature Range:** -40°C to +125°C

Lifetime: 2,000 Hours*

www.kemet.com/EDT



EDT	107	M	010	A	9L	AA
Series	Capacitance Code (μF)	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 = $\pm 20\%$	010 = 10 016 = 16 025 = 25 035 = 35 050 = 50	A = Standard S = AEC-Q200	See Dimension Table	AA = Tape & Reel

Case Size	Voltage				
	10	16	25	35	50
6.3 x 7.7	150 μF	47 μF – 100 μF	47 μF – 100 μF	22 μF – 33 μF	
8 x 6.2	100 μF – 150 μF	100 μF	47 μF – 100 μF	33 μF – 47 μF	22 μF
8 x 10.2	220 μF – 330 μF	150 μF – 330 μF	100 μF – 150 μF	47 μF – 100 μF	33 μF – 47 μF
10 x 10.2	470 μF – 1 mF	470 μF	220 μF – 330 μF	150 μF – 220 μF	100 μF

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

Radial/Single-Ended

ESC Low Impedance and High Frequency 105°C, 6.3 – 100 VDC

Capacitance Range: 4.7 to 15,000 μF • **Temperature Range:** -40°C to +105°C

Lifetime: 3,000 Hours*

www.kemet.com/ESC



ESC	157	M	6R3		A	C3	AA
Series	Capacitance Code (μF)	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 = $\pm 20\%$	6R3 = 6.3 010 = 10 016 = 16 025 = 25	035 = 35 050 = 50 063 = 63 100 = 100	A = Standard	See Dimension Table	See Ordering Options Table

Case Size	Voltage							
	6.3	10	16	25	35	50	63	100
5 x 11	150 μF	100 μF – 120 μF	56 μF – 100 μF	10 μF – 56 μF	4.7 μF – 33 μF	4.7 μF – 22 μF	4.7 μF – 15 μF	4.7 μF – 6.8 μF
6.3 x 11	220 μF – 470 μF	150 μF – 220 μF	120 μF – 150 μF	68 μF – 100 μF	47 μF – 100 μF	33 μF – 47 μF	22 μF – 33 μF	10 μF – 15 μF
8 x 11	330 μF – 1 mF	330 μF – 680 μF	220 μF – 330 μF	120 μF – 220 μF	100 μF – 120 μF	68 μF – 100 μF	47 μF – 68 μF	22 μF
8 x 15	680 μF – 1.5 mF	470 μF	330 μF – 470 μF	220 μF – 330 μF	150 μF – 220 μF	100 μF		33 μF
8 x 20	820 μF – 1.5 mF	1 mF		330 μF – 470 μF		120 μF	100 μF	
10 x 12.5	1 mF	680 μF – 1 mF	330 μF – 470 μF	470 μF	220 μF	150 μF		
10 x 16	1.2 mF – 1.5 mF	820 μF – 1 mF	680 μF – 1 mF	330 μF – 470 μF	330 μF	220 μF	120 μF – 150 μF	47 μF
10 x 20	1.5 mF – 2.2 mF	1 mF – 2.2 mF	820 μF – 1.5 mF	680 μF – 1 mF	330 μF – 470 μF	330 μF – 470 μF	220 μF	68 μF
10 x 25	2.2 mF – 3.3 mF	2.2 mF	1.2 mF	1 mF		220 μF		
10 x 30		3.3 mF	2.2 mF					
13 x 20	2.2 mF	2.2 mF	1.2 mF – 2.2 mF	1 mF	680 μF – 820 μF	470 μF	330 μF	100 μF
13 x 25	3.3 mF – 4.7 mF	3.3 mF – 4.7 mF	2.2 mF	1.2 mF	1 mF	680 μF	470 μF	120 μF – 150 μF
13 x 30	4.7 mF			1.5 mF – 2.2 mF				
13 x 35				2.2 mF				
13 x 40			3.3 mF					
16 x 25	4.7 mF	4.7 mF	3.3 mF	1.5 mF	1.2 mF – 1.5 mF	820 μF – 1 mF	680 μF	220 μF
16 x 32	6.8 mF – 8.2 mF			2.2 mF	2.2 mF	1.2 mF	820 μF – 1 mF	330 μF
16 x 36	10 mF	6.8 mF	4.7 mF	3.3 mF	2.2 mF	1.5 mF	1.2 mF	
18 x 36	15 mF	8.2 mF	6.8 mF	3.3 mF – 6.8 mF	3.3 mF		1.5 mF	470 μF
18 x 40						2.2 mF		

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

Radial/Single-Ended (cont.)

ESY Very Low Impedance and High Ripple 105°C, 6.3 – 100 VDC

Capacitance Range: 5.6 to 6,800 µF • **Temperature Range:** -40°C to +105°C

Lifetime: 5,000 Hours*

www.kemet.com/ESY



ESY	396	M	6R3		A	B2	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	A = Standard	See Dimension Table	See Ordering Options Table

Case Size	Voltage							
	6.3	10	16	25	35	50	63	100
4 x 7	39 µF	27 µF	18 µF	15 µF	10 µF	5.6 µF		
5 x 7	47 µF – 68 µF	33 µF – 56 µF	27 µF – 33 µF	18 µF – 27 µF	15 µF – 18 µF	6.8 µF – 10 µF		
5 x 11	100 µF – 150 µF	68 µF – 100 µF	39 µF – 56 µF	33 µF – 47 µF	27 µF – 33 µF	15 µF – 22 µF	15 µF	6.8 µF
6.3 x 7	100 µF – 150 µF	120 µF	68 µF	56 µF	39 µF	15 µF – 22 µF		
6.3 x 11	270 µF – 330 µF	220 µF	100 µF – 120 µF	68 µF – 100 µF	47 µF – 56 µF	39 µF – 56 µF	22 µF – 33 µF	10 µF – 15 µF
8 x 7	180 µF – 220 µF	150 µF – 180 µF	100 µF – 120 µF	68 µF – 100 µF	47 µF – 56 µF	27 µF – 33 µF		
8 x 11	470 µF – 560 µF	270 µF – 470 µF	150 µF – 330 µF	120 µF – 220 µF	68 µF – 150 µF	68 µF – 100 µF	39 µF – 56 µF	22 µF – 27 µF
8 x 15	680 µF – 820 µF	560 µF		270 µF	180 µF	120 µF	68 µF – 82 µF	33 µF – 39 µF
8 x 16		680 µF	470 µF					
8 x 20	1.2 mF	820 µF – 1 mF	560 µF – 680 µF	470 µF	270 µF	180 µF	120 µF	56 µF
10 x 12.5	1 mF	560 µF – 680 µF	470 µF	270 µF – 330 µF	180 µF – 220 µF	150 µF	68 µF – 82 µF	47 µF
10 x 16	1.2 mF	820 µF – 1 mF	560 µF – 680 µF	470 µF	330 µF	220 µF	100 µF – 120 µF	68 µF
10 x 20	1.5 mF	1.2 mF	820 µF – 1 mF	560 µF – 680 µF	470 µF	270 µF	150 µF – 180 µF	82 µF
10 x 25	1.8 mF – 2.2 mF	1.5 mF	1.2 mF	820 µF	560 µF	330 µF	220 µF	100 µF
13 x 16							150 µF – 180 µF	82 µF
13 x 20	2.7 mF – 3.3 mF	1.8 mF – 2.2 mF	1.5 mF	1 mF	680 µF	390 µF – 470 µF	270 µF	120 µF
13 x 25	3.9 mF	2.7 mF – 3.3 mF	1.8 mF – 2.2 mF	1.2 mF – 1.5 mF	820 µF – 1 mF	560 µF	330 µF	150 µF – 180 µF
13 x 30	4.7 mF	3.9 mF	2.7 mF	1.8 mF	1.2 mF	680 µF	390 µF – 470 µF	220 µF
13 x 35	5.6 mF	4.7 mF	3.3 mF	2.2 mF	1.5 mF	820 µF	560 µF	270 µF
13 x 40							680 µF	330 µF
16 x 20	5.6 mF	3.9 mF	2.7 mF	1.8 mF	1.2 mF	820 µF	390 µF – 470 µF	220 µF
16 x 25	6.8 mF	5.6 mF	3.9 mF	2.7 mF	1.8 mF		560 µF	270 µF
16 x 32						1 mF	820 µF	390 µF
16 x 36							1 mF	470 µF
16 x 40							1.2 mF	560 µF
18 x 20							680 µF	270 µF
18 x 25							820 µF	390 µF
18 x 32							1 mF	470 µF
18 x 36							1.2 mF	560 µF
18 x 40							1.5 mF	680 µF

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

Radial/Single-Ended (cont.)

ETG High Ripple 105°C, 16 – 450 VDC

Capacitance Range: 12 to 2,200 µF • **Temperature Range:** -40°C to +105°C and -25°C to +105°C

Lifetime: 5,000 Hours*

www.kemet.com/ETG



ETG	226	M	250		A	K6	AA
Series	Capacitance Code (µF)	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%	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	A = Standard	See Dimension Table	See Ordering Options Table

Case Size	Voltage												
	16	25	35	50	63	100	160	200	250	350	400	420	450
8 x 9									22 µF				
8 x 30	1.5 mF	820 µF – 1 mF	680 µF	330 µF	220 µF								
8 x 32									27 µF				
8 x 35	1.8 mF		820 µF				56 µF		33 µF	15 µF	15 µF	15 µF	12 µF
8 x 40	2.2 mF		1 mF	470 µF	330 µF		68 µF			22 µF	22 µF	22 µF	15 µF
8 x 42									39 µF				
8 x 45		1.5 mF		680 µF			82 µF	56 µF	47 µF	27 µF	27 µF	27 µF	22 µF
8 x 50		1.8 mF			470 µF	220 µF	100 µF	68 µF		33 µF	33 µF	33 µF	
8 x 52													27 µF
8 x 55				820 µF									
8 x 60		2.2 mF	1.5 mF										
10 x 35											27 µF	27 µF	22 µF
10 x 40		2.2 mF	1.5 mF	820 µF			120 µF	82 µF			33 µF	33 µF	27 µF
10 x 42									56 µF				
10 x 45			1.8 mF	1 mF	680 µF	330 µF		100 µF	68 µF	39 µF	39 µF	39 µF	33 µF
10 x 50							150 µF	120 µF	82 µF	47 µF	47 µF	47 µF	39 µF
10 x 52													47 µF
10 x 60						470 µF							
12.5 x 35												39 µF	33 µF
12.5 x 40							180 µF			56 µF	47 µF	47 µF	39 µF
12.5 x 42									100 µF				
12.5 x 45							220 µF	150 µF	120 µF	68 µF	56 µF	56 µF	47 µF
12.5 x 50							270 µF	180 µF	150 µF	82 µF	68 µF	68 µF	56 µF
12.5 x 55							330 µF	220 µF		100 µF	82 µF	82 µF	68 µF
12.5 x 60								270 µF					
16 x 35											100 µF		

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

Radial/Single-Ended (cont.)

ESW Low Impedance and High Frequency 105°C, 6.3 – 100 VDC

Capacitance Range: 2.2 to 15,000 μF • **Temperature Range:** -40°C to +105°C

Lifetime: 6,000 Hours*

www.kemet.com/ESW



ESW	157	M	6R3		A	C3	AA
Series	Capacitance Code (μF)	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 = $\pm 20\%$	6R3 = 6.3 010 = 10 016 = 16 025 = 25	035 = 35 050 = 50 063 = 63 100 = 100	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 – 150 μF	22 μF – 100 μF	10 μF – 56 μF	4.7 μF – 47 μF	4.7 μF – 33 μF	2.2 μF – 22 μF	4.7 μF – 15 μF	1 μF – 6.8 μF
6.3 x 11	150 μF – 470 μF	150 μF – 220 μF	100 μF – 220 μF	82 μF – 100 μF	47 μF – 56 μF	33 μF – 47 μF	15 μF – 33 μF	10 μF – 15 μF
6.3 x 15	330 μF	220 μF	180 μF	120 μF	68 μF – 82 μF	56 μF	39 μF	18 μF
8 x 11	470 μF – 680 μF	330 μF – 470 μF	220 μF – 330 μF	150 μF – 220 μF	100 μF – 150 μF	82 μF – 100 μF	47 μF – 68 μF	15 μF – 22 μF
8 x 12							56 μF	27 μF
8 x 15	820 μF – 1 mF	680 μF	470 μF	330 μF	220 μF	120 μF	82 μF – 100 μF	33 μF – 39 μF
8 x 20	1.2 mF – 1.5 mF	1 mF	470 μF – 1 mF	470 μF	270 μF – 330 μF	180 μF	120 μF	47 μF – 56 μF
10 x 12.5	820 μF	820 μF	470 μF	330 μF – 470 μF	220 μF	150 μF	82 μF	47 μF
10 x 16	1.2 mF – 1.5 mF	1 mF	470 μF – 1 mF	470 μF	330 μF	220 μF	120 μF	68 μF
10 x 20	1.5 mF – 2.2 mF	1.2 mF – 1.5 mF	820 μF – 1 mF	560 μF – 680 μF	330 μF – 470 μF	220 μF – 330 μF	180 μF – 220 μF	68 μF – 82 μF
10 x 25	2.2 mF – 3.3 mF	1.5 mF	1.2 mF	820 μF	560 μF	270 μF – 330 μF	220 μF	82 μF – 100 μF
10 x 30	2.7 mF	2.2 mF – 3.3 mF	1.5 mF	1 mF	680 μF	330 μF – 470 μF	270 μF	120 μF
13 x 16	1.8 mF	1.5 mF	1 mF	680 μF	470 μF	270 μF	180 μF	82 μF
13 x 20	2.2 mF – 3.3 mF	2.2 mF	1.5 mF	1 mF – 1.5 mF	680 μF – 820 μF	390 μF – 470 μF	270 μF – 330 μF	100 μF – 120 μF
13 x 25	3.9 mF	2.7 mF – 3.3 mF	2.2 mF	1.5 mF	1 mF	560 μF – 680 μF	330 μF – 470 μF	150 μF – 180 μF
13 x 30	4.7 mF	3.3 mF – 3.9 mF	2.7 mF	1.8 mF	1.2 mF	680 μF	470 μF	180 μF – 220 μF
13 x 35	5.6 mF	3.9 mF – 4.7 mF	3.3 mF	2.2 mF	1.5 mF	820 μF	560 μF – 680 μF	270 μF
13 x 40	6.8 mF	5.6 mF	3.9 mF	2.7 mF	1.8 mF	1 mF	680 μF	330 μF
16 x 16	2.7 mF	2.2 mF	1.5 mF	1 mF	680 μF	470 μF	270 μF	150 μF
16 x 20	5.6 mF	3.9 mF	2.7 mF	1.8 mF	1.2 mF	680 μF – 820 μF	470 μF	180 μF – 220 μF
16 x 25	4.7 mF – 6.8 mF	4.7 mF – 5.6 mF	3.3 mF – 3.9 mF	1.5 mF – 2.7 mF	1.5 mF – 1.8 mF	1 mF	560 μF	220 μF – 330 μF
16 x 32	8.2 mF – 0.01 F	6.8 mF	4.7 mF	3.3 mF	2.2 mF	1.2 mF – 1.5 mF	820 μF – 1 mF	390 μF – 470 μF
16 x 36	10 mF	8.2 mF	5.6 mF	3.9 mF	2.7 mF	1.5 mF	270 μF – 1 mF	470 μF
16 x 40		10 mF	6.8 mF		3.3 mF	1.8 mF		560 μF
18 x 16	3.9 mF	2.7 mF	2.2 mF	1.2 mF	1 mF	560 μF	390 μF	180 μF
18 x 20	6.8 mF	5.6 mF	3.9 mF	2.2 mF	1.8 mF	1 mF	680 μF	330 μF
18 x 25	10 mF	6.8 mF	4.7 mF	3.3 mF	2.2 mF	1.2 mF	820 μF	390 μF
18 x 32	12 mF	8.2 mF	5.6 mF	3.9 mF	2.7 mF	1.8 mF	1 mF – 1.2 mF	470 μF
18 x 36	15 mF	10 mF	8.2 mF	4.7 mF	3.3 mF	2.2 mF		680 μF
18 x 40		15 mF	10 mF	6.8 mF	4.7 mF			820 μF

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

Radial/Single-Ended (cont.)

ETA Long Life and Low Impedance 105°C, 6.3 – 35 VDC

Capacitance Range: 33 to 8,200 µF • **Temperature Range:** -40°C to +105°C

Lifetime: 10,000 Hours*

www.kemet.com/ETA



ETA	157	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	A = Standard	See Dimension Table	See Ordering Options Table

Case Size	Voltage				
	6.3	10	16	25	35
5 x 11	150 µF	100 µF	56 µF	47 µF	33 µF
6.3 x 11	330 µF	220 µF	120 µF	100 µF	56 µF
8 x 11	680 µF	470 µF	330 µF	220 µF	150 µF
8 x 15	1 mF	680 µF	470 µF	330 µF	220 µF
8 x 20	1.2 mF	1 mF	680 µF	470 µF	270 µF
10 x 12.5	820 µF	680 µF	470 µF	330 µF	220 µF
10 x 15	1.2 mF	1 mF	680 µF	470 µF	330 µF
10 x 20	1.5 mF	1.2 mF	1 mF	680 µF	470 µF
10 x 25	2.2 mF	1.5 mF	1.2 mF	820 µF	560 µF
10 x 30	2.7 mF	2.2 mF	1.5 mF	1 mF	680 µF
13 x 16	1.8 mF	1.5 mF	1 mF	680 µF	470 µF
13 x 20	3.3 mF	2.2 mF	1.5 mF	1 mF	680 µF
13 x 25	3.9 mF	3.3 mF	2.2 mF	1.5 mF	1 mF
13 x 30	4.7 mF	3.9 mF	2.7 mF	1.8 mF	1.2 mF
13 x 35	5.6 mF	4.7 mF	3.3 mF	2.2 mF	1.5 mF
13 x 40	6.8 mF	5.6 mF	3.9 mF	2.7 mF	1.8 mF
16 x 20	5.6 mF	3.9 mF	2.7 mF	1.8 mF	1.2 mF
16 x 25	6.8 mF	5.6 mF	3.9 mF	2.7 mF	1.8 mF
16 x 32	8.2 mF	6.8 mF	4.7 mF	3.3 mF	2.2 mF
16 x 36		8.2 mF	5.6 mF	3.9 mF	2.7 mF
16 x 40			6.8 mF	4.7 mF	3.3 mF
18 x 20	6.8 mF	5.6 mF	3.9 mF	2.2 mF	1.8 mF
18 x 25		6.8 mF	4.7 mF	3.3 mF	2.2 mF
18 x 32		8.2 mF	5.6 mF	3.9 mF	2.7 mF
18 x 36			8.2 mF	4.7 mF	3.3 mF
18 x 40				5.6 mF	3.9 mF

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

Radial/Single-Ended (cont.)

EST Long Life and Low Impedance 105°C, 6.3 – 63 VDC

Capacitance Range: 2.2 to 15,000 μF • **Temperature Range:** -40°C to +105°C

Lifetime: 10,000 Hours*

www.kemet.com/EST



EST	157	M	6R3		A	C3	AA
Series	Capacitance Code (μF)	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 = $\pm 20\%$	6R3 = 6.3 010 = 10 016 = 16 025 = 25	035 = 35 050 = 50 063 = 63 100 = 100	A = Standard	See Dimension Table	See Ordering Options Table

Case Size	Voltage							
	6.3	10	16	25	35	50	63	100
5 x 11	150 μF	100 μF	56 μF	47 μF	33 μF	10 μF – 22 μF	10 μF	2.2 μF – 6.8 μF
6.3 x 11	330 μF	220 μF	100 μF	100 μF	47 μF	33 μF – 47 μF	33 μF	10 μF – 15 μF
8 x 11	680 μF	470 μF	220 μF	150 μF – 220 μF	150 μF	100 μF	56 μF	22 μF – 33 μF
8 x 15	820 μF	680 μF	330 μF – 470 μF	330 μF	220 μF	120 μF		47 μF
8 x 20	1.5 mF					150 μF		56 μF
10 x 12.5	1 mF							
10 x 15	1.5 mF	1 mF	680 μF	470 μF				68 μF
10 x 16						220 μF	120 μF	
10 x 20	2.2 mF	1.5 mF	1 mF	680 μF	330 μF	330 μF	180 μF	82 μF – 100 μF
10 x 25	2.7 mF	2.2 mF	1.5 mF	820 μF	470 μF		220 μF	120 μF
10 x 30					680 μF	470 μF	270 μF	
13 x 20	3.3 mF	2.7 mF		1 mF	680 μF	470 μF	270 μF	150 μF
13 x 25	3.9 mF	3.3 mF	2.2 mF	1.5 mF	820 μF – 1 mF	560 μF	330 μF	220 μF
13 x 30	4.7 mF	3.9 mF	2.7 mF		1.2 mF	680 μF	470 μF	
13 x 35	5.6 mF	4.7 mF	3.3 mF	2.2 mF	1.5 mF	820 μF	560 μF	
13 x 40	6.8 mF	5.6 mF	3.9 mF		1.8 mF		680 μF	
16 x 25	6.8 mF	5.6 mF		2.7 mF		1 mF		330 μF
16 x 32	8.2 mF	6.8 mF	4.7 mF	3.3 mF	2.2 mF	1.2 mF	820 μF	470 μF
16 x 36	10 mF	8.2 mF	5.6 mF		2.7 mF	1.5 mF	1 mF	
16 x 40							1.2 mF	
18 x 25								470 μF
18 x 32	12 mF		5.6 mF	3.9 mF		1.8 mF		
18 x 36	15 mF	1 mF	6.8 mF	4.7 mF	3.3 mF	2.2 mF		680 μF
18 x 40						2.7 mF		820 μF – 1 mF

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

Radial/Single-Ended (cont.)

ESU Very Long Life 105°C, 160 – 450 VDC

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

Lifetime: 12,000 Hours*

www.kemet.com/ESU



ESU	336	M	160	A	H8	AA
Series	Capacitance Code (μF)	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 = $\pm 20\%$	160 = 160 200 = 200 250 = 250 350 = 350 400 = 400 450 = 450	A = Standard	See Dimension Table	See Ordering Options Table

Case Size	Voltage					
	160	200	250	350	400	450
10 x 16	33 μF	22 μF	10 μF	6.8 μF	6.8 μF	
10 x 20	47 μF	33 μF	22 μF	10 μF	10 μF	10 μF
13 x 20	68 μF	47 μF	33 μF – 47 μF	22 μF	22 μF	15 μF
13 x 25	100 μF	68 μF		33 μF		22 μF
16 x 20					47 μF	
16 x 25	150 μF	100 μF	100 μF	47 μF	33 μF	33 μF
16 x 32	220 μF	150 μF		68 μF	47 μF	
16 x 36						47 μF – 68 μF
18 x 25			150 μF			
18 x 32		220 μF			68 μF	
18 x 36	330 μF		220 μF			
18 x 50	560 μF	390 μF	330 μF		100 μF	100 μF

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

Radial/Single-Ended (cont.)

EAK High Temperature and Long Life 125°C, 10 – 450 VDC

Capacitance Range: 1 to 4,700 µF • Temperature Range: -40°C to +105°C and -25°C to +125°C

Lifetime: 5,000 Hours*

www.kemet.com/EAK



EAK	227	M	010		A	G3	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%	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	A = Standard	See Dimension Table	See Ordering Options Table

Case Size	Voltage											
	10	16	25	35	50	63	160	200	250	350	400	450
8 x 11	220 µF	220 µF	100 µF		47 µF	47 µF	3.3 µF	3.3 µF	2.2 µF	1 µF		
8 x 16												1 µF
10 x 12		330 µF						4.7 µF				
10 x 12.5	330 µF	330 µF	220 µF	100 µF	100 µF		4.7 µF	4.7 µF	3.3 µF	2.2 µF	1 µF	
10 x 15						100 µF						
10 x 16	470 µF		330 µF	220 µF			10 µF		4.7 µF	3.3 µF	2.2 µF – 3.3 µF	2.2 µF
10 x 20	1 mF	470 µF	470 µF	330 µF	220 µF		22 µF	10 µF	10 µF	4.7 µF	4.7 µF	3.3 µF
10 x 25							33 µF	22 µF		10 µF	10 µF	4.7 µF
13 x 20		1 mF		470 µF	330 µF	220 µF	47 µF	33 µF	22 µF			10 µF
13 x 25	2.2 mF		1 mF		470 µF	330 µF	68 µF	47 µF	33 µF	22 µF		
13 x 30											22 µF	
16 x 20								68 µF				
16 x 25	3.3 mF	2.2 mF		1 mF		470 µF	100 µF	100 µF	47 µF	33 µF	33 µF	22 µF
16 x 32	4.7 mF	3.3 mF	2.2 mF		1 mF		150 µF		68 µF	47 µF	47 µF	33 µF
18 x 32		4.7 mF										

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

Axial Leads

PEG124 Very Long Life 105°C and 125°C, 10 – 450 VDC

Capacitance Range: 1 to 4,700 µF • Temperature Range: -40°C to +105°C and -40°C to +125°C

Lifetime: 27,500 Hours*

www.kemet.com/PEG124



PEG124	E		F	410	0	Q	T1
Series	Rated Voltage (VDC)		Size Code	Capacitance Code (µF)	Version	Capacitance Tolerance	Packaging
Axial Aluminum Electrolytic	E = 10 G = 16 H = 25 K = 40 M = 63	P = 100 R = 200 U = 350 V = 400 Y = 450	See Dimension Table	The last two digits represent significant figures. The first digit indicates the total number digits.	0 = Standard A-Z = High Performance	Q = -10 +30% M = ±20% T = -10 +50%	See Ordering Options Table

105°C

Case Size	Voltage				
	100	200	350	400	450
10 x 20	4.7 µF				1 µF
10 x 29	22 µF	10 µF	4.7 µF	2.2 µF	2.2 µF – 3.3 µF
13 x 29	47 µF	15 µF – 22 µF	6.8 µF – 10 µF	4.7 µF	4.7 µF – 6.8 µF
13 x 37	47 µF			10 µF	
16 x 29	100 µF	33 µF – 47 µF	22 µF		10 µF
16 x 37	220 µF			22 µF	15 µF
20 x 29		68 µF	33 µF		15 µF – 22 µF
20 x 37		100 µF	47 µF	33 µF	22 µF – 33 µF
20 x 46	470 µF	150 µF	68 µF	47 µF	47 µF

125°C

Case Size	Voltage				
	10	16	25	40	63
10 x 20		68 µF – 100 µF	47 µF	33 µF	10 µF – 22 µF
10 x 29		150 µF – 220 µF	100 µF	68 µF	33 µF – 47 µF
13 x 20		220 µF – 470 µF	220 µF – 330 µF	150 µF – 220 µF	100 µF
13 x 29		330 µF – 470 µF	220 µF	150 µF	68 µF – 150 µF
13 x 37		680 µF	330 µF	220 µF	
16 x 29	1 mF	680 µF – 1 mF	470 µF – 680 µF	220 µF – 470 µF	150 µF – 330 µF
16 x 37	1.5 mF	1 mF – 2.2 mF	680 µF – 1.5 mF	330 µF – 1 mF	220 µF – 680 µF
20 x 37	2.2 mF	1.5 mF – 4.7 mF	1 mF – 3.3 mF	470 µF – 2.2 mF	330 µF – 1 mF
20 x 46	3.3 mF	2.2 mF	1.5 mF – 4 mF	1 mF	470 µF – 1.5 mF

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

Axial Leads (cont.)

PEG130 Very Long Life 105°C, 25 – 63 VDC (160,000 Lifetime at 80°C)

Capacitance Range: 900 to 6,300 μ F • Temperature Range: -40°C to +150°C

Lifetime: 45,000 Hours*

www.kemet.com/PEG130



PEG130	H	H	436	0	Q	L1
Series	Rated Voltage (VDC)	Size Code	Capacitance Code (μ F)	Version	Capacitance Tolerance	Packaging
Axial Aluminum Electrolytic	H = 25 K = 40 M = 63	See Dimension Table	The last two digits represent significant figures. The first digit indicates the total number digits.	0 = Standard	Q = -10+30%	See Ordering Options Table

Case Size	Voltage		
	25	40	63
20 x 29	3.6 mF	2 mF	900 μ F
20 x 37	4.8 mF	3 mF	1.4 mF
20 x 46	6.3 mF	3.9 mF	1.8 mF

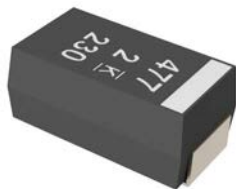
Aluminum Polymer - Surface Mount (H-Chip)

A700 Aluminum Organic Capacitor (AO-CAP), 2 – 16 VDC

Capacitance Range: 6.8 to 560 μ F • Temperature Range: -55°C to +125°C

Lifetime: 2,000 Hours*

www.kemet.com/A700



A	700	V	476	M	006	A	T	E018	
Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Failure Rate/Design	Termination Finish	ESR Code	Packaging (C-Spec)
A = Aluminum	700 = Aluminum Polymer	D V X	First two digits represent significant figures. Third digit specifies number of zeros.	M = $\pm$ 20%	002 = 2 2R5 = 2.5 004 = 4 006 = 6.3 008 = 8 010 = 10 12R = 12.5 016 = 16	A = N/A	T = 100% Matte Tin (Sn) plated	E = ESR Last three digits specify ESR in m Ω (018 = 18 m Ω)	Blank = 7" Reel 7280 = 13" Reel

Case Size	Voltage							
	2	2.5	4	6.3	8	10	12.5	16
7343	100 μ F – 560 μ F	68 μ F – 330 μ F	68 μ F – 330 μ F	10 μ F – 220 μ F	10 μ F – 100 μ F	10 μ F – 150 μ F	10 μ F – 100 μ F	6.8 μ F – 22 μ F

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

Aluminum Polymer - Surface Mount (V-Chip)

A765 Miniature, Ultra Low Impedance and High Ripple 105°C, 2.5 – 35 VDC

Capacitance Range: 10 to 2,700 μF • Temperature Range: -55°C to +105°C

Lifetime: 2,000 Hours*

www.kemet.com/A765



A	765	EB	397	M	0E	LA	E020
Capacitor Class	Series	Size Code	Capacitance Code (pF)	Tolerance	Rated Voltage (VDC)	Packaging	ESR
A = Aluminum	Surface Mount Conductive Polymer Solid Capacitor 105°C 2,000 Hour Ultra Low Impedance	See Dimension Table	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	2.5 = 0E 4 = 0G 6.3 = 0J 10 = 1A 16 = 1C 25 = 1E 35 = 1V	LA = Tape & Reel	Last 3 digits represent significant figures for ESR values. (m Ω)

Case Size	Voltage						
	2.5	4	6.3	10	16	25	35
5 x 6			100 μF				
5 x 7			220 μF				
6.3 x 5.7	390 μF		150 μF – 220 μF	150 μF	100 μF	47 μF	10 μF – 18 μF
6.3 x 7	470 μF		270 μF – 330 μF		150 μF		
6.3 x 8	560 μF						
6.3 x 9.7	680 μF						
8 x 7.5		560 μF	470 μF	330 μF	180 μF		
8 x 9.7	820 μF – 1.5 mF	680 μF – 1.2 mF	390 μF – 1.2 mF	180 μF – 270 μF	220 μF – 390 μF	56 μF – 100 μF	
10 x 12.6	2.7 mF	1.5 mF	1.5 mF	680 μF	470 μF – 1 mF	150 μF – 330 μF	

A767 Miniature, Ultra Low Impedance and High Ripple 105°C, 35 – 50 VDC

Capacitance Range: 18 to 220 μF • Temperature Range: -55°C to +105°C

Lifetime: 2,000 Hours*

www.kemet.com/A767



A	767	EB	226	M	1H	LA	E050
Capacitor Class	Series	Size Code	Capacitance Code (pF)	Tolerance	Rated Voltage (VDC)	Packaging	ESR
A = Aluminum	Surface Mount Conductive Polymer Solid Capacitor 105°C 2,000 Hour High Voltage	See Dimension Table	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	35 = 1V 50 = 1H	LA = Tape & Reel	Last 3 digits represent significant figures for ESR values. (m Ω)

Case Size	Voltage	
	35	50
6.3 x 5.7	22 μF	
8 x 9.7	33 μF – 82 μF	18 μF – 56 μF
10 x 12.6	100 μF – 220 μF	82 μF – 100 μF

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

Radial/Single-Ended

A758 Miniature, Low Impedance and High Ripple 105°C, 2.5 – 25 VDC

Capacitance Range: 10 to 1,200 μF • Temperature Range: -55°C to +105°C

Lifetime: 5,000 Hours*

www.kemet.com/A758



A	758	EK	337	M	0E	AA	E018
Capacitor Class	Series	Size Code	Capacitance Code (pF)	Tolerance	Rated Voltage (VDC)	Packaging	ESR
A = Aluminum	Single-Ended Conductive Polymer Solid Capacitor 105°C 5,000 Hour	See Dimension Table	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	2.5 = 0E 4 = 0G 6.3 = 0J 10 = 1A 16 = 1C 20 = 1D 25 = 1E	See Ordering Options Table	Last 3 digits represent significant figures for ESR values. (m Ω)

Case Size	Voltage					
	2.5	4	6.3	10	16	25
5 x 7		220 μF – 270 μF	180 μF – 220 μF			10 μF
6.3 x 8	330 μF – 560 μF	330 μF – 560 μF	270 μF – 470 μF	100 μF – 180 μF	100 μF	22 μF – 33 μF
8 x 8	680 μF – 1.2 mF	680 μF – 820 μF	560 μF – 820 μF	220 μF	150 μF – 220 μF	

A759 High Temperature, High Voltage and High Ripple 125°C, 35 – 250 VDC

Capacitance Range: 2.2 to 680 μF • Temperature Range: -55°C to +125°C

Lifetime: 2,000 Hours*

www.kemet.com/A759



A	759	BQ	106	M	1V	AA	E090
Capacitor Class	Series	Size Code	Capacitance Code (pF)	Tolerance	Rated Voltage (VDC)	Packaging	ESR
A = Aluminum	Single-Ended Conductive Polymer Solid Capacitor 125°C 2,000 Hour	See Dimension Table	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	35 = 1V 50 = 1H 63 = 1J 100 = 2A 160 = 2C 250 = 2E	See Ordering Options Table	Last 3 digits represent significant figures for ESR values. (m Ω)

Case Size	Voltage					
	35	50	63	100	160	250
5 x 11	10 μF – 33 μF	10 μF – 22 μF				
6.3 x 11				4.7 μF		
8 x 8						2.2 μF
8 x 12	100 μF	39 μF	47 μF	15 μF	10 μF	3.3 μF – 4.7 μF
10 x 12	150 μF	68 μF – 100 μF	68 μF – 82 μF	22 μF	15 μF – 18 μF	6.8 μF – 8.2 μF
10 x 16			150 μF			
10 x 18		440 μF				
10 x 20		440 μF	220 μF			
13 x 20		680 μF	330 μF			
18 x 31						82 μF

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

Ceramic Capacitors

Commercial Grade

COG Dielectric, Class I, 10 – 250 VDC

Capacitance Range: 0.50 pF to 0.47 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/COG



C	1206	C	104	J	3	G	A	C	TU
Ceramic	Case Size (L" x W")	Specification/ Series¹	Capacitance Code (pF)	Capacitance Tolerance²	Rated Voltage (VDC)	Dielectric	Failure Rate/ Design	Termination Finish³	Packaging/ Grade (C-Spec)
	0201 0402 0603 0805 1206 1210 1808 1812 1825 2220 2225	C = Standard	Two significant digits + number of zeros. Use 9 for 1.0 – 9.9 pF. Use 8 for 0.5 – .99 pF. e.g., 2.2 pF = 229. e.g., 0.5 pF = 508	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 = $\pm 20\%$	8 = 10 4 = 16 3 = 25 5 = 50 1 = 100 2 = 200 A = 250	G = COG	A = N/A	C = 100% Matte Sn	See "Packaging C-Spec Ordering Options Table" below

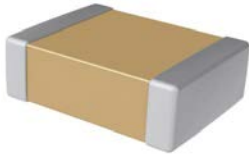
Case Size	Voltage						
	10	16	25	50	100	200	250
0201	10 pF – 100 pF	10 pF – 100 pF	10 pF – 100 pF				
0402	0.5 pF – 2.2 nF	0.5 pF – 2.2 nF	0.5 pF – 2.2 nF	0.5 pF – 1.5 nF	100 pF – 1 nF	100 pF – 330 pF	100 pF – 330 pF
0603	0.5 pF – 0.015 μ F	0.5 pF – 0.015 μ F	0.5 pF – 0.015 μ F	0.5 pF – 6.8 nF	0.5 pF – 4.7 nF	0.5 pF – 2.2 nF	0.75 pF – 2.2 nF
0805	0.5 pF – 0.047 μ F	0.5 pF – 0.047 μ F	0.5 pF – 0.047 μ F	0.5 pF – 0.022 μ F	0.5 pF – 0.015 μ F	0.5 pF – 8.2 nF	0.75 pF – 8.2 nF
1206	1 pF – 0.1 μ F	1 pF – 0.1 μ F	1 pF – 0.1 μ F	1 pF – 0.082 μ F	1 pF – 0.047 μ F	1 pF – 0.022 μ F	1 pF – 0.022 μ F
1210	1 pF – 0.22 μ F	1 pF – 0.22 μ F	1 pF – 0.22 μ F	1 pF – 0.15 μ F	1 pF – 0.1 μ F	1 pF – 0.047 μ F	1 pF – 0.047 μ F
1808				330 pF – 4.7 nF	330 pF – 4.7 nF	330 pF – 2.7 nF	330 pF – 2.7 nF
1812				470 pF – 0.22 μ F	470 pF – 0.15 μ F	470 pF – 0.1 μ F	470 pF – 0.1 μ F
1825				3.9 nF – 0.027 μ F	3.9 nF – 0.027 μ F	3.9 nF – 0.012 μ F	3.9 nF – 0.012 μ F
2220				6.8 nF – 0.47 μ F	6.8 nF – 0.33 μ F	6.8 nF – 0.22 μ F	
2225				4.7 nF – 0.033 μ F	4.7 nF – 0.027 μ F	4.7 nF – 0.015 μ F	4.7 nF – 0.015 μ F

Commercial Grade (cont.)

U2J Dielectric, Class I, 10 – 50 VDC

Capacitance Range: 100 pF to 0.47 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/U2J



C	1206	C	104	J	3	J	A	C	TU
Ceramic	Case Size (L" x W")	Specification/ Series ¹	Capacitance Code (pF)	Capacitance Tolerance ²	Rated Voltage (VDC)	Dielectric	Failure Rate/ Design	Termination Finish ³	Packaging/ Grade (C-Spec)
	0402 0603 0805 1206 1210 1812	C = Standard	Two significant digits + number of zeros.	F = $\pm 1\%$ G = $\pm 2\%$ J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	8 = 10 4 = 16 3 = 25 5 = 50	J = U2J	A = N/A	C = 100% Matte Sn	See "Packaging C-Spec Ordering Options Table" below

Case Size	Voltage			
	10	16	25	50
0402	100 pF – 2.2 nF	100 pF – 2.2 nF	100 pF – 2.2 nF	100 pF – 1.8 nF
0603	1 nF – 0.015 μ F	1 nF – 0.015 μ F	1 nF – 0.015 μ F	1 nF – 0.01 μ F
0805	4.7 nF – 0.056 μ F	4.7 nF – 0.056 μ F	4.7 nF – 0.056 μ F	4.7 nF – 0.047 μ F
1206	0.01 μ F – 0.22 μ F	0.01 μ F – 0.22 μ F	0.01 μ F – 0.22 μ F	0.01 μ F – 0.15 μ F
1210	0.01 μ F – 0.33 μ F	0.01 μ F – 0.33 μ F	0.01 μ F – 0.33 μ F	0.01 μ F – 0.27 μ F
1812	0.01 μ F – 0.47 μ F	0.01 μ F – 0.47 μ F	0.01 μ F – 0.47 μ F	

X7R Dielectric, Class II, 6.3 – 250 VDC

Capacitance Range: 10 pF to 47 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/X7R



C	1206	C	106	M	4	R	A	C	TU
Ceramic	Case Size (L" x W")	Specification/ Series ¹	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Dielectric	Failure Rate/ Design	Termination Finish ³	Packaging/ Grade (C-Spec)
	0402 0603 0805 1206 1210 1808 1812 1825 2220 2225	C = Standard	Two significant digits + number of zeros.	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	9 = 6.3 8 = 10 4 = 16 3 = 25 6 = 35 5 = 50 1 = 100 2 = 200 A = 250	R = X7R	A = N/A	C = 100% Matte Sn	See "Packaging C-Spec Ordering Options Table" below

Case Size	Voltage								
	6.3	10	16	25	35	50	100	200	250
0402	10 pF – 0.1 μ F	10 pF – 0.1 μ F	10 pF – 0.1 μ F	10 pF – 0.1 μ F		10 pF – 0.022 μ F			
0603	10 pF – 2.2 μ F	10 pF – 2.2 μ F	10 pF – 1 μ F	10 pF – 1 μ F		10 pF – 0.15 μ F	10 pF – 0.047 μ F	10 pF – 0.01 μ F	
0805	10 pF – 10 μ F	10 pF – 10 μ F	10 pF – 4.7 μ F	10 pF – 2.2 μ F	10 pF – 1 μ F	10 pF – 1 μ F	10 pF – 0.22 μ F	10 pF – 0.056 μ F	180 pF – 0.022 μ F
1206	10 pF – 22 μ F	10 pF – 22 μ F	10 pF – 10 μ F	10 pF – 10 μ F	10 pF – 4.7 μ F	10 pF – 4.7 μ F	10 pF – 1 μ F	10 pF – 0.15 μ F	1 nF – 0.1 μ F
1210	10 pF – 47 μ F	10 pF – 47 μ F	10 pF – 22 μ F	10 pF – 22 μ F		10 pF – 10 μ F	10 pF – 2.2 μ F	10 pF – 0.22 μ F	2.2 nF – 0.22 μ F
1808						330 pF – 0.18 μ F	330 pF – 0.056 μ F	330 pF – 0.018 μ F	
1812				470 pF – 10 μ F		470 pF – 4.7 μ F	470 pF – 3.3 μ F	470 pF – 0.47 μ F	6.8 nF – 0.47 μ F
1825						3.9 nF – 2.2 μ F	3.9 nF – 1 μ F	3.9 nF – 1 μ F	0.022 μ F – 1 μ F
2220				6.8 nF – 22 μ F		6.8 nF – 15 μ F	6.8 nF – 1 μ F	0.082 μ F – 1 μ F	0.082 μ F – 1 μ F
2225						4.7 nF – 2.2 μ F	4.7 nF – 1.2 μ F	4.7 nF – 1.2 μ F	0.1 μ F – 1.2 μ F

High Temperature

High Temperature 150°C, X8L Dielectric, 10 – 50 VDC (Commercial and Automotive Grade)

Capacitance Range: 0.012 to 10 μ F • Temperature Range: -55°C to +150°C

www.kemet.com/X8L-Auto



C	1210	X	106	K	8	N	A	C	TU
Ceramic	Case Size (L" x W")	Specification/ Series ¹	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Dielectric	Failure Rate/ Design	Termination Finish ²	Packaging/Grade (C-Spec)
	0402 0603 0805 1206 1210	C = Standard X = Flexible Termination	Two significant digits + number of zeros	J = $\pm$ 5% K = $\pm$ 10% M = $\pm$ 20%	8 = 10 4 = 16 3 = 25 5 = 50	N = X8L	A = N/A	C = 100% Matte Sn L = SnPb (5% Pb minimum)	See "Packaging C-Spec Ordering Options Table" below

Case Size	Voltage			
	10	16	25	50
0402	0.012 μ F – 0.047 μ F	0.027 μ F – 0.047 μ F	0.012 μ F – 0.022 μ F	
0603	0.047 μ F – 0.22 μ F	0.18 μ F – 0.22 μ F	0.047 μ F – 0.15 μ F	0.047 μ F
0805	0.15 μ F – 1 μ F	0.82 μ F – 1 μ F	0.15 μ F – 0.68 μ F	0.15 μ F – 0.22 μ F
1206	0.47 μ F – 4.7 μ F	2.7 μ F – 4.7 μ F	0.47 μ F – 2.2 μ F	0.47 μ F
1210	0.39 μ F – 10 μ F	5.6 μ F – 10 μ F	0.39 μ F – 4.7 μ F	0.39 μ F – 1 μ F

High Temperature KPS 150°C, X8L Dielectric, 10 – 50 VDC (Commercial and Automotive Grade)

Capacitance Range: 470 nF to 47 μ F • Temperature Range: -55°C to +150°C

www.kemet.com/KPS-X8L-Auto



C	2220	C	476	M	8	N	2	C	7186
Ceramic	Case Size (L" x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance ¹	Rated Voltage (VDC)	Dielectric	FailureRate/ Design	Leadframe Finish ²	Packaging/Grade (C-Spec)
	1210 2220	C = Standard	Two significant digits + number of zeros.	K = $\pm$ 10% M = $\pm$ 20%	8 = 10 4 = 16 3 = 25 5 = 50	N = X8L	1 = KPS Single Chip Stack 2 = KPS Double Chip Stack	C = 100% Matte Sn	See "Packaging C-Spec Ordering Options Table" below

Case Size	Voltage			
	10	16	25	50
1210-1	0.47 μ F – 4.7 μ F	0.47 μ F – 4.7 μ F	0.47 μ F – 4.7 μ F	0.47 μ F – 1 μ F
1210-2	1 μ F – 10 μ F	1 μ F – 10 μ F	1 μ F – 10 μ F	1 μ F – 2.2 μ F
2220-1	2.2 μ F – 22 μ F	2.2 μ F – 10 μ F	2.2 μ F – 10 μ F	
2220-2	4.7 μ F – 47 μ F	4.7 μ F – 22 μ F	4.7 μ F – 22 μ F	

High Temperature (cont.)

High Temperature 150°C, Ultra-Stable X8R Dielectric, 25 – 100 VDC (Commercial and Automotive Grade)

Capacitance Range: 100 pF to 0.22 µF • Temperature Range: -55°C to +150°C

www.kemet.com/X8R-Auto



C	1210	C	184	K	3	H	A	C	AUTO
Ceramic	Case Size (L" x W")	Specification/ Series ¹	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Dielectric	FailureRate/ Design	Termination Finish ²	Packaging/ Grade (C-Spec)
	0402 0603 0805 1206 1210 1812	C = Standard	Two significant digits + number of zeros	F = ±1% G = ±2% J = ±5% K = ±10% M = ±20%	3 = 25 5 = 50 1 = 100	H = Ultra Stable X8R	A = N/A	C = 100% Matte Sn L = SnPb (5% Pb minimum)	See "Packaging C-Spec Ordering Options Table" below

Case Size	Voltage		
	25	50	100
0402	100 pF – 1.5 nF	100 pF – 1.5 nF	100 pF – 1 nF
0603	430 pF – 0.01 µF	430 pF – 6.8 nF	430 pF – 4.7 nF
0805	2 nF – 0.033 µF	2 nF – 0.022 µF	2 nF – 0.015 µF
1206	6.8 nF – 0.1 µF	6.8 nF – 0.082 µF	6.8 nF – 0.056 µF
1210	0.012 µF – 0.18 µF	0.012 µF – 0.15 µF	0.012 µF – 0.1 µF
1812		0.015 µF – 0.22 µF	0.015 µF – 0.15 µF

High Temperature 200°C, C0G Dielectric, 10 – 200 VDC

Capacitance Range: 0.5 pF to 0.47 µF • Temperature Range: -55°C to +200°C

www.kemet.com/HT-C0G



C	1210	H	124	J	5	G	A	C	TU
Ceramic	Case Size (L" x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance ¹	Voltage	Dielectric	Failure Rate/ Design	Termination Finish ²	Packaging/ Grade (C-Spec)
	0402 0603 0805 1206 1210 1812 2220	H = High Temperature (200°C)	Two significant digits + number of zeros. Use 9 for 1.0 – 9.9 pF Use 8 for 0.5 – 0.99 pF e.g., 2.2 pF = 229 e.g., 0.5 pF = 508	B = ±0.10 pF C = ±0.25 pF D = ±0.5 pF F = ±1% G = ±2% J = ±5% K = ±10% M = ±20%	8 = 10 V 4 = 16 V 3 = 25 V 5 = 50 V 1 = 100 V 2 = 200 V	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" below

Case Size	Voltage					
	10	16	25	50	100	200
0402	0.5 pF – 1.5 nF	0.5 pF – 1.5 nF	0.5 pF – 1.5 nF	0.5 pF – 1.5 nF	100 pF – 1 nF	
0603	0.5 pF – 0.01 µF	0.5 pF – 0.01 µF	0.5 pF – 0.01 µF	0.5 pF – 6.8 nF	0.5 pF – 4.7 nF	0.5 pF – 180 pF
0805	0.5 pF – 0.047 µF	0.5 pF – 0.047 µF	0.5 pF – 0.047 µF	0.5 pF – 0.022 µF	0.5 pF – 0.015 µF	0.5 pF – 1 nF
1206	1 pF – 0.1 µF	1 pF – 0.1 µF	1 pF – 0.1 µF	1 pF – 0.082 µF	1 pF – 0.047 µF	1 pF – 2.7 nF
1210	1 pF – 0.15 µF	1 pF – 0.15 µF	1 pF – 0.15 µF	1 pF – 0.15 µF	1 pF – 0.1 µF	1 pF – 5.6 nF
1812	0.015 µF – 0.22 µF	0.015 µF – 0.22 µF	0.015 µF – 0.22 µF	0.015 µF – 0.22 µF	0.015 µF – 0.15 µF	
2220	0.47 µF	0.47 µF	0.47 µF	0.47 µF		

High Temperature (cont.)

HV-HT 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 Tolerance¹	Rated Voltage (VDC)	Dielectric	Failure Rate/ Design	Termination Finish²	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" below

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

High Temperature (cont.)

Flexible Termination System (FT-CAP), Ultra-Stable X8R Dielectric, 25 – 100 VDC

(Commercial and Automotive Grade)

Capacitance Range: 430 pF to 0.22 μ F • Temperature Range: -55°C to +150°C

www.kemet.com/FTCap-X8R



C	1206	X	104	J	3	H	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 1812	X = Flexible Termination	Two significant digits + number of zeros.	F = $\pm 1\%$ G = $\pm 2\%$ J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	3 = 25 5 = 50 1 = 100	H = Ultra-Stable X8R	A = N/A	C = 100% Matte Sn L = SnPb (5% Pb minimum)	See "Packaging C-Spec Ordering Options Table" below

Case Size	Voltage		
	25	50	100
0603	430 pF – 0.01 μ F	430 pF – 6.8 nF	430 pF – 4.7 nF
0805	2 nF – 0.033 μ F	2 nF – 0.022 μ F	2 nF – 0.015 μ F
1206	6.8 nF – 0.1 μ F	6.8 nF – 0.082 μ F	6.8 nF – 0.056 μ F
1210	0.012 μ F – 0.18 μ F	0.012 μ F – 0.15 μ F	0.012 μ F – 0.1 μ F
1812		0.015 μ F – 0.22 μ F	0.015 μ F – 0.15 μ F

KPS HT, High Temperature 150°C, X8L Dielectric, 10 – 50 VDC

Capacitance Range: 0.47 μ F to 47 μ F • Temperature Range: -55°C to +150°C

www.kemet.com/KPS-X8L



C	2220	C	476	M	8	N	2	C	7186
Ceramic	Case Size (L" x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance ¹	Rated Voltage (VDC)	Dielectric	FailureRate/ Design	Leadframe Finish ²	Packaging/Grade (C-Spec)
	1210 2220	C = Standard	Two significant digits + number of zeros.	K = $\pm 10\%$ M = $\pm 20\%$	8 = 10 4 = 16 3 = 25 5 = 50	N = X8L	1 = KPS Single Chip Stack 2 = KPS Double Chip Stack	C = 100% Matte Sn	See "Packaging C-Spec Ordering Options Table" below

Case Size	Voltage			
	10	16	25	50
1210-1	0.47 μ F – 4.7 μ F	0.47 μ F – 4.7 μ F	0.47 μ F – 4.7 μ F	0.47 μ F – 1 μ F
1210-2	1 μ F – 10 μ F	1 μ F – 10 μ F	1 μ F – 10 μ F	1 μ F – 2.2 μ F
2220-1	2.2 μ F – 22 μ F	2.2 μ F – 10 μ F	2.2 μ F – 10 μ F	
2220-2	4.7 μ F – 47 μ F	4.7 μ F – 22 μ F	4.7 μ F – 22 μ F	

High Temperature (cont.)

High Temperature 175°C, X7R Dielectric, 16 – 200 VDC

Capacitance Range: 2.7 nF to 3.3 µF • Temperature Range: -55°C to +175°C

www.kemet.com/175-X7R



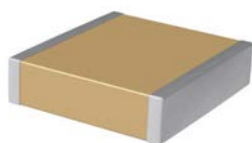
C	1210	R	225	K	3	R	A	C	T050
Ceramic	Case Size ¹ (L" x W")	Specification/ Series ¹	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Dielectric	Failure Rate/ Design	Termination Finish	Packaging/Grade (C-Spec) ²
	0402 0603 0805 1206 1210 1812	G = 175°C with standard termination R = 175°C w/ Flexible Termination	First two digits represent significant figures. Third digit specifies number of zeros.	J = ±5% K = ±10% M = ±20%	4 = 16 3 = 25 5 = 50 1 = 100 2 = 200	R = X7R	A = N/A	C = 100% Matte Sn	Blank = Bulk 7292 = Waffle Pack/Tray TU = 7" Reel – Unmarked (full reel quantity) T050 = 50 pieces/ 7" Reel – Unmarked T100 = 100 pieces/ 7" Reel – Unmarked T250 = 250 pieces/ 7" Reel – Unmarked T500 = 500 pieces/ 7" Reel – Unmarked T1K0 = 1,000 pieces/ Reel – Unmarked

Case Size	Voltage				
	16	25	50	100	200
0402	2.7 nF – 0.047 µF	2.7 nF – 0.022 µF	2.7 nF – 0.01 µF		
0603		0.018 µF – 0.15 µF	0.018 µF – 0.1 µF		
0805		0.047 µF – 0.68 µF	0.047 µF – 0.27 µF		
1206		0.1 µF – 1 µF	0.1 µF – 0.47 µF		
1210		0.18 µF – 2.2 µF	0.18 µF – 1 µF		
1812		0.056 µF – 3.3 µF	0.056 µF – 1.5 µF	0.056 µF – 0.1 µF	0.056 µF – 0.1 µF

Pulse Discharge, High Voltage, High Temperature 200°C, C0G Dielectric, 500 – 3,000 VDC

Capacitance Range: 0.5 pF to 0.15 µF • Temperature Range: -55°C to +200°C

www.kemet.com/Pulse-Discharge



C	2824	H	393	K	U	G	W	C	TU
Ceramic	Case Size (L" x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance	Dielectric Withstanding Voltage (VDC) ¹	Dielectric	Failure Rate/ Design	Termination Finish ²	Packaging/ Grade (C-Spec) ³
	2824 3040 3640 4540	H = High Temp (200°C)	Two significant digits + number of zeros	J = ±5% K = ±10% M = ±20%	D = 1,000 U = 1,250 G = 2,000 H = 3,000 V = 3,500	G = C0G	W = Pulse Discharge	C = 100% Matte Sn L = SnPb (5% Pb minimum)	See "Packaging C-Spec Ordering Options Table" below

High Voltage

ArcShield™ Technology, High Voltage, X7R Dielectric, 500 – 1,000 VDC (Commercial and Automotive Grade)

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" below

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	

High Voltage (cont.)

High Voltage COG Dielectric, 500 – 3,000 VDC

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

www.kemet.com/HV-COG



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 = ±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 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 – 820 pF	1 pF – 560 pF	1 pF – 270 pF				
1206	10 pF – 4.7 nF	10 pF – 4.7 nF	10 pF – 1 nF	10 pF – 560 pF	10 pF – 270 pF		
1210	10 pF – 8.2 nF	10 pF – 6.8 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	1 pF – 390 pF	1 pF – 180 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	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		

High Voltage (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	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)
	0603 0805 1206 1210 1808 1812 1825 2220 2225	C = Standard	Two significant digits + 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 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	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	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

KPS, X7R Dielectric, 10 – 250 VDC

Capacitance Range: 0.1 μ F to 47 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/KPS-X7R



C	2220	C	106	M	5	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)
	1210 1812 2220	C = Standard	Two significant digits + number of zeros	K = $\pm$ 10% M = $\pm$ 20%	8 = 10 4 = 16 3 = 25 5 = 50 1 = 100 A = 250	R = X7R	1 = KPS Single Chip Stack 2 = KPS Double Chip Stack	C = 100% Matte Sn	See "Packaging C-Spec Ordering Options Table" below

Case Size	Voltage					
	10	16	25	50	100	250
1210-1	0.1 μ F – 22 μ F	0.1 μ F – 10 μ F	0.1 μ F – 10 μ F	0.1 μ F – 4.7 μ F	0.1 μ F – 2.2 μ F	0.1 μ F
1210-2	0.1 μ F – 47 μ F	0.1 μ F – 22 μ F	0.1 μ F – 22 μ F	0.1 μ F – 10 μ F	0.1 μ F – 4.7 μ F	0.1 μ F – 0.22 μ F
1812-1		0.1 μ F – 10 μ F	0.1 μ F – 10 μ F	0.1 μ F – 4.7 μ F	0.1 μ F – 1 μ F	0.1 μ F – 0.47 μ F
1812-2		0.1 μ F – 22 μ F	0.1 μ F – 22 μ F	0.1 μ F – 10 μ F	0.1 μ F – 3.3 μ F	0.1 μ F – 1 μ F
2220-1		0.1 μ F – 22 μ F	0.1 μ F – 22 μ F	0.1 μ F – 10 μ F	0.1 μ F – 3.3 μ F	0.1 μ F – 1 μ F
2220-2		0.1 μ F – 47 μ F	0.1 μ F – 47 μ F	0.1 μ F – 22 μ F	0.1 μ F – 4.7 μ F	0.1 μ F – 2.2 μ F

High Voltage (cont.)

KPS HV, High Voltage, X7R Dielectric, 500 – 630 VDC

Capacitance Range: 0.047 μ F to 1.0 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" below

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

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

Capacitance Range: 1 pF to 0.15 μ F • 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 = $\pm 1\%$ 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	G = C0G	A = N/A	C = 100% Matte Sn L = SnPb (5% Pb minimum) E = Gold (Au) 1.97 – 11.8 μ in F = Gold (Au) 30 – 50 μ in G = Gold (Au) 100 μ in minimum	See "Packaging C-Spec Ordering Options Table" below

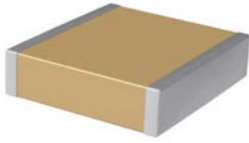
Case Size	Voltage				
	500	630	1,000	1,500	2,000
0805	1 pF – 820 pF	1 pF – 560 pF	1 pF – 270 pF		
1206	10 pF – 2.7 nF	10 pF – 1.8 nF	10 pF – 1 nF	10 pF – 560 pF	10 pF – 270 pF
1210	10 pF – 8.2 nF	10 pF – 5.6 nF	10 pF – 2.7 nF	10 pF – 1.2 nF	10 pF – 680 pF
1808	1 pF – 6.8 nF	1 pF – 4.7 nF	1 pF – 2.7 nF	1 pF – 1.5 nF	1 pF – 680 pF
1812	10 pF – 0.015 μ F	10 pF – 0.01 μ F	10 pF – 5.6 nF	10 pF – 2.7 nF	10 pF – 1.5 nF
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
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
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
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

High Voltage (cont.)

Pulse Discharge, High Voltage, High Temperature 200°C, COG Dielectric, 500 – 3,000 VDC

Capacitance Range: 0.5 pF to 0.15 µF • Temperature Range: -55°C to +200°C

www.kemet.com/Pulse-Discharge



C	2824	H	393	K	U	G	W	C	TU
Ceramic	Case Size (L" x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance	Dielectric Withstanding Voltage (VDC) ¹	Dielectric	Failure Rate/ Design	Termination Finish ²	Packaging/ Grade (C-Spec) ³
	2824 3040 3640 4540	H = High Temp (200°C)	Two significant digits + number of zeros	J = ±5% K = ±10% M = ±20%	D = 1,000 U = 1,250 G = 2,000 H = 3,000 V = 3,500	G = COG	W = Pulse Discharge	C = 100% Matte Sn L = SnPb (5% Pb minimum)	See "Packaging C-Spec Ordering Options Table" below

KPS HV, Large Case, SM Series, COG Dielectric, 500 – 10,000 VDC

Capacitance Range: 10 pF to 0.39 µF • 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	SM30	N = COG	Two significant digits and number of zeros	J = ±5% K = ±10% M = ±20%	501 = 500	A = Formed "L" B = Formed "J"	Blank = None M = Group A per MIL-PRF-49467
SM21	SM31				102 = 1,000		
SM22	SM33				202 = 2,000		
SM23	SM34				302 = 3,000		
SM24	SM35				402 = 4,000		
SM25	SM36				502 = 5,000		
SM26					752 = 7,500 103 = 10,000		

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 µF	33 pF – 6.8 nF	33 pF – 3.3 nF	33 pF – 1.2 nF				
SM23	82 pF – 0.033 µF	82 pF – 0.015 µF	82 pF – 5.6 nF	82 pF – 2.2 nF	82 pF – 680 pF			
SM24	56 pF – 0.068 µF	56 pF – 0.047 µF	56 pF – 0.01 µF	56 pF – 4.7 nF	27 pF – 1.5 nF	27 pF – 1.5 nF		
SM25	270 pF – 0.047 µF	270 pF – 0.047 µF	180 pF – 0.012 µF	180 pF – 5.6 nF	180 pF – 1.8 nF	180 pF – 1.8 nF		
SM26	180 pF – 0.068 µF	180 pF – 0.068 µF	180 pF – 0.022 µF	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 µF	27 pF – 0.012 µF	27 pF – 5.6 nF	27 pF – 1.5 nF	22 pF – 180 pF	22 pF – 180 pF		
SM33	82 pF – 0.1 µF	82 pF – 0.047 µF	82 pF – 0.018 µF	82 pF – 6.8 nF	82 pF – 2.7 nF	27 pF – 2.7 nF	27 pF – 1 nF	
SM34	68 pF – 0.15 µF	68 pF – 0.056 µF	56 pF – 0.022 µF	56 pF – 0.015 µF	47 pF – 2.7 nF	47 pF – 2.7 nF	39 pF – 1 nF	39 pF – 560 pF
SM35	150 pF – 0.27 µF	150 pF – 0.15 µF	150 pF – 0.047 µF	150 pF – 0.022 µF	150 pF – 3.9 nF	150 pF – 3.9 nF	150 pF – 1.8 nF	47 pF – 1 nF
SM36	150 pF – 0.39 µF	150 pF – 0.15 µF	150 pF – 0.056 µF	150 pF – 0.033 µF	120 pF – 0.01 µF	120 pF – 6.8 nF	120 pF – 3.3 nF	1 nF – 1.5 nF

High Voltage (cont.)

KPS HV, Large Case, SM Series, 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 – 0.1 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

Aximax 400, Axial, Conformal Coated, X8L Dielectric, 25 – 50 VDC (Commercial and Automotive Grade)

Capacitance Range: 0.1 to 2.2 μF • Temperature Range: -55°C to $+150^{\circ}\text{C}$

www.kemet.com/Aximax-X8L



C	410	C	105	K	3	N	5	T	A	7200
Ceramic	Style /Size	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance ¹	Rated Voltage (VDC)	Dielectric	Design	Lead Finish ²	Failure Rate	Packaging/Grade (C-Spec)
	410 430	C = Standard	Two significant digits and number of zeros	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	3 = 25 V 5 = 50 V	N = X8L	5 = Multilayer	T = 100% Matte Sn H = SnPb (60/40)	A = N/A	Blank = Bulk 7200 = 12" Reel 7293 = Ammo pack 9170 = Automotive grade 9170 7200 = Auto 12" Reel 9170 7293 = Auto Ammo pack

Case Size	Voltage	
	25	50
C410 (2.31 x 4.32)	0.1 μF – 0.68 μF	0.1 μF – 0.22 μF
C430 (3.81 x 6.1)	0.82 μF – 2.2 μF	0.33 μF – 0.47 μF

Aximax 400, Axial, Conformal Coated, X8R Dielectric, 50 – 200 VDC (Commercial and Automotive Grade)

Capacitance Range: 10 pF to 0.082 μF • Temperature Range: -55°C to $+150^{\circ}\text{C}$

www.kemet.com/Aximax-X8R



C	410	C	472	J	5	H	5	T	A	7200
Ceramic	Style /Size	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance ¹	Rated Voltage (VDC)	Dielectric	Design	Lead Finish ²	Failure Rate	Packaging/Grade (C-Spec)
	410 430	C = Standard	Two significant digits and number of zeros	F = $\pm 1\%$ G = $\pm 2\%$ J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	5 = 50 1 = 100 2 = 200	H = Ultra-Stable X8R	5 = Multilayer	T = 100% Matte Sn H = SnPb (60/40)	A = N/A	Blank = Bulk 7200 = 12" Reel 7293 = Ammo pack 9170 = Automotive grade 9170 7200 = Auto 12" Reel 9170 7293 = Auto Ammo pack

Case Size	Voltage		
	50	100	200
C410 (2.31 x 4.32)	100 pF – 0.022 μF	100 pF – 0.015 μF	100 pF – 1 nF
C430 (3.81 x 6.1)	0.027 μF – 0.082 μF	0.018 μF – 0.047 μF	1.1 nF – 2.7 nF

ACR/ACA/ARR/ARA, 200°C, C0G and X7R Dielectric, Axial and Radial, 50 – 100 VDC

Capacitance Range: 5.6 pF to 5.6 µF • Temperature Range: -55°C to +200°C

www.kemet.com/Axx



A	C	R	06	B	103	K	G	S
Series	Dielectric	Lead Configuration	Case Size	Rated Voltage (VDC)	Capacitance Code (pF)	Capacitance Tolerance	Lead Finish	Grade/Test Level
A = High Temperature Axial and Radial Capacitors	C = C0G (NP0)/BP R = X7R (BX)	A = Axial R = Radial	05 – 09 = Radial 16 – 69 = Axial	B = 50 D = 100 S = Special	Two significant digits plus the 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-39014, Group A Test A = MIL-PRF-20 (C0G) X = Special

ACR

Case Size	Voltage	
	50	100
05 (5.08 x 5.08 x 2.54)	10 pF – 0.01 µF	10 pF – 0.01 µF
06 (7.62 x 7.62 x 2.54)	270 pF – 0.027 µF	270 pF – 0.027 µF
07 (7.62 x 7.62 x 3.81)	270 pF – 0.033 µF	270 pF – 0.033 µF
08 (12.7 x 12.7 x 2.54)	270 pF – 0.082 µF	270 pF – 0.068 µF
09 (12.7 x 12.7 x 3.81)	270 pF – 0.12 µF	270 pF – 0.1 µF

ARR

Case Size	Voltage	
	50	100
05 (5.08 x 5.08 x 2.54)	100 pF – 0.33 µF	100 pF – 0.33 µF
06 (7.62 x 7.62 x 2.54)	330 pF – 1 µF	330 pF – 1 µF
07 (7.62 x 7.62 x 3.81)	330 pF – 1 µF	330 pF – 1 µF
08 (12.7 x 12.7 x 2.54)	680 pF – 1.8 µF	680 pF – 1.8 µF
09 (12.7 x 12.7 x 3.81)	680 pF – 3.3 µF	680 pF – 3.3 µF

ACA

Case Size	Voltage	
	50	100
16 (4.32 x 2.03 x 2.03)	1 pF – 680 pF	1 pF – 560 pF
25 (6.86 x 2.54 x 2.54)	56 pF – 4.7 nF	56 pF – 4.7 nF
39 (10.16 x 3.81 x 3.81)	150 pF – 0.015 µF	150 pF – 0.015 µF
50 (13.21 x 6.73 x 4.06)	390 pF – 0.039 µF	390 pF – 0.022 µF
69 (18.29 x 9.4 x 4.06)	820 pF – 0.1 µF	820 pF – 0.1 µF

ARA

Case Size	Voltage	
	50	100
16 (4.32 x 2.03 x 2.03)	100 pF – 0.015 µF	100 pF – 4.7 nF
25 (6.86 x 2.54 x 2.54)	100 pF – 0.12 µF	100 pF – 0.047 µF
39 (10.16 x 3.81 x 3.81)	180 pF – 0.33 µF	180 pF – 0.12 µF
50 (13.21 x 6.73 x 4.06)	390 pF – 1 µF	390 pF – 1 µF
69 (18.29 x 9.4 x 4.06)	820 pF – 1.8 µF	820 pF – 1.8 µF

HT/HP, 200°C, COG and X7R Dielectric, Axial and Radial, 50 – 200 VDC

Capacitance Range: 5.6 pF to 4.7 μF • Temperature Range: -55°C to +200°C

www.kemet.com/HT-HP



HT06	A	W	472	K	N
Style/Size	Rated Voltage (VDC)	Dielectric	Capacitance Code (pF)	Capacitance Tolerance	Lead Finish
HT05 – HT16 HP05 – HP16	A = 25 B = 50 C = 100 D = 200	N = COG (NP0) W = X7R	Two significant digits plus number of zeros	J = ±5% K = ±10% M = ±20%	N = Nickel (Standard) C = Solder Coated Clad Steel

HT-COG Axial

Case Size	Voltage		
	50	100	200
HT11 (2.54 x 4.32)	1 pF – 1 nF	1 pF – 1 nF	1 pF – 820 pF
HT13 (3.43 x 6.6)	15 pF – 5.6 nF	15 pF – 5.6 nF	15 pF – 3.9 nF
HT14 (3.94 x 10.16)	150 pF – 0.018 μF	150 pF – 0.018 μF	150 pF – 0.012 μF
HT16 (9.52 x 19.05)	820 pF – 0.1 μF	820 pF – 0.1 μF	820 pF – 0.082 μF

HP-COG Axial

Case Size	Voltage		
	50	100	200
HP11 (2.54 x 4.32)	1 pF – 1 nF	1 pF – 1 nF	1 pF – 820 pF
HP13 (3.43 x 6.6)	15 pF – 5.6 nF	15 pF – 5.6 nF	15 pF – 3.9 nF
HP14 (3.94 x 10.16)	150 pF – 0.018 μF	150 pF – 0.018 μF	150 pF – 0.012 μF
HP15 (5.08 x 12.7)	390 pF – 0.047 μF	390 pF – 0.047 μF	390 pF – 0.039 μF
HP16 (9.52 x 19.05)	820 pF – 0.1 μF	820 pF – 0.1 μF	820 pF – 0.082 μF

HT-COG Radial

Case Size	Voltage		
	50	100	200
HT05 (5.08 x 5.08 x 2.54)	22 pF – 2.7 nF	22 pF – 2.7 nF	22 pF – 1.5 nF
HT06 (7.62 x 7.62 x 3.81)	270 pF – 0.039 μF	270 pF – 0.039 μF	270 pF – 0.015 μF
HT08 (12.7 x 12.7 x 6.35)	680 pF – 0.12 μF	680 pF – 0.12 μF	680 pF – 0.12 μF
HT09 (17.78 x 10.16 x 5.08)	0.01 μF – 0.1 μF	0.01 μF – 0.1 μF	0.01 μF – 0.068 μF
HT55 (5.08 x 5.08 x 2.54)	10 pF – 2.7 nF	10 pF – 2.7 nF	10 pF – 1.5 nF

HP-COG Radial

Case Size	Voltage		
	50	100	200
HP05 (5.08 x 5.08 x 2.54)	22 pF – 2.7 nF	22 pF – 2.7 nF	22 pF – 1.5 nF
HP06 (7.62 x 7.62 x 3.81)	270 pF – 0.039 μF	270 pF – 0.039 μF	270 pF – 0.015 μF
HP08 (12.7 x 12.7 x 6.35)	680 pF – 0.12 μF	680 pF – 0.12 μF	680 pF – 0.12 μF
HP09 (17.78 x 10.16 x 5.08)	0.01 μF – 0.1 μF	0.01 μF – 0.1 μF	0.01 μF – 0.068 μF
HP55 (5.08 x 5.08 x 2.54)	10 pF – 2.7 nF	10 pF – 2.7 nF	10 pF – 1.5 nF

HT-X7R Axial

Case Size	Voltage		
	50	100	200
HT11 (2.54 x 4.32)	100 pF – 0.056 μF	100 pF – 0.056 μF	100 pF – 0.018 μF
HT13 (3.43 x 6.6)	100 pF – 0.22 μF	100 pF – 0.22 μF	100 pF – 0.027 μF
HT14 (3.94 x 10.16)	330 pF – 0.47 μF	330 pF – 0.47 μF	330 pF – 0.18 μF
HT16 (9.52 x 19.05)	820 pF – 4.7 μF	820 pF – 4.7 μF	820 pF – 1.5 μF

HP-X7R Axial

Case Size	Voltage		
	50	100	200
HP11 (2.54 x 4.32)	100 pF – 0.056 μF	100 pF – 0.056 μF	100 pF – 0.018 μF
HP13 (3.43 x 6.6)	100 pF – 0.22 μF	100 pF – 0.22 μF	100 pF – 0.027 μF
HP14 (3.94 x 10.16)	330 pF – 0.47 μF	330 pF – 0.47 μF	330 pF – 0.18 μF
HP15 (5.08 x 12.7)	390 pF – 2.2 μF	390 pF – 2.2 μF	390 pF – 0.47 μF
HP16 (9.52 x 19.05)	820 pF – 4.7 μF	820 pF – 4.7 μF	820 pF – 1.5 μF

HT-X7R Radial

Case Size	Voltage		
	50	100	200
HT05 (5.08 x 5.08 x 2.54)	1 nF – 0.082 μF	1 nF – 0.082 μF	1 nF – 0.027 μF
HT06 (7.62 x 7.62 x 3.81)	1.8 nF – 1 μF	1.8 nF – 1 μF	1.8 nF – 0.47 μF
HT08 (12.7 x 12.7 x 6.35)	1.2 nF – 5.6 μF	1.2 nF – 5.6 μF	1.2 nF – 2.7 μF
HT09 (17.78 x 10.16 x 5.08)	0.1 μF – 3.9 μF	0.1 μF – 3.9 μF	0.1 μF – 1 μF
HT55 (5.08 x 5.08 x 2.54)	1 nF – 0.082 μF	1 nF – 0.082 μF	1 nF – 0.027 μF

HP-X7R Radial

Case Size	Voltage		
	50	100	200
HP05 (5.08 x 5.08 x 2.54)	1 nF – 0.082 μF	1 nF – 0.082 μF	1 nF – 0.027 μF
HP06 (7.62 x 7.62 x 3.81)	1.8 nF – 1 μF	1.8 nF – 1 μF	1.8 nF – 0.47 μF
HP08 (12.7 x 12.7 x 6.35)	1.2 nF – 5.6 μF	1.2 nF – 5.6 μF	1.2 nF – 2.7 μF
HP09 (17.78 x 10.16 x 5.08)	0.1 μF – 3.9 μF	0.1 μF – 3.9 μF	0.1 μF – 1 μF
HP55 (5.08 x 5.08 x 2.54)	1 nF – 0.082 μF	1 nF – 0.082 μF	1 nF – 0.027 μF

HV 200°C, C0G and X7R Dielectric, Radial Conformal Coated, 500 – 4,000 VDC

Capacitance Range: 270 pF to 1.0 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	270 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	1.2 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	3.9 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 – 0.022 µF	1.2 nF – 0.012 µF

VCR/VRR, 200°C, C0G and X7R Dielectric, Radial, 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

High Temperature 200°C, Radial, Molded, C0G Dielectric, 50 – 200 VDC

Capacitance Range: 1 pF up to 0.22 µF • Temperature Range: -55°C to +200°C

www.kemet.com/HT200C-Radial-C0G



C	052	H	272	F	2	G	5	G	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 ³
	052 062	H = High Temp 200°C	Two significant digits and number of zeros Use 9 for 1.0 – 9.9 pF ex. 2.2 pF = 229	B = ±0.1 pF C = ±0.25 pF D = ±0.5 pF F = ±1% G = ±2% J = ±5% K = ±10%	5 = 50 1 = 100 2 = 200	G = C0G	5 = Multilayer	G = Gold (Au)	A = N/A	Blank = Bulk Bag T250 = 250 pcs/ 12" Reel T500 = 500 pcs/ 12" Reel T1K0 = 1,000 pcs/ 12" Reel 7301 = Full Reel Qty/ 12" Reel 7303 = Full Reel Qty/ 12" Reel 7061 = Bulk Tray

Case Size	Voltage		
	50	100	200
C052 (4.83 x 5.97 x 2.29)	1 pF – 0.1 µF	1 pF – 0.047 µF	1 pF – 3.3 nF
C062 (7.37 x 7.37 x 2.29)	0.12 µF – 0.22 µF	0.056 µF – 0.12 µF	4.7 nF – 6.8 nF

High Temperature 200°C, Radial, Molded, X7R Dielectric, 50 – 200 VDC

Capacitance Range: 1,000 pF up to 1 µF • Temperature Range: -55°C to +200°C

www.kemet.com/HT200C-Radial-X7R



C	062	H	105	K	5	R	5	G	A	7303
Ceramic	Style/Size	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance ¹	Rated Voltage (VDC)	Dielectric	Design	Lead Finish ²	Failure Rate	Packaging C-Spec ³
	052 062	H = High Temp 200°C	Two significant digits and number of zeros Use 9 for 1.0 – 9.9 pF ex. 2.2 pF = 229	J = ±5% K = ±10% M = ±20%	5 = 50 1 = 100 2 = 200	R = X7R	5 = Multilayer	G = Gold (Au)	A = N/A	Blank = Bulk Bag T250 = 250 pcs/ 12" Reel T500 = 500 pcs/ 12" Reel T1K0 = 1,000 pcs/ 12" Reel 7301 = Full Reel Qty/ 12" Reel 7303 = Full Reel Qty/ 12" Reel 7061 = Bulk Tray

Case Size	Voltage		
	50	100	200
C052 (4.83 x 5.97 x 2.29)	1 nF – 0.1 µF	1 nF – 0.047 µF	1 nF – 3.3 nF
C062 (7.37 x 7.37 x 2.29)	0.12 µF – 1 µF	0.056 µF – 0.12 µF	4.7 nF – 6.8 nF

TCR/TRR/TCA/TRA, 260°C, C0G and X7R Dielectric, Axial and Radial, 50 – 100 VDC

Capacitance Range: 10 pF to 5.6 μ F • Temperature Range: -55°C to +200°C

www.kemet.com/Txx



T	C	R	06	B	103	K	G	S
Series	Dielectric	Lead Configuration	Case Size	Rated Voltage (VDC)	Capacitance Code (pF)	Capacitance Tolerance	Lead Finish	Grade/ Test Level
T = High Temperature Axial and Radial Capacitors	C = C0G (NP0)/BP R = X7R (BX)	A = Axial R = Radial	05 – 09 = Radial 16 – 69 = Axial	B = 50 D = 100	Two significant digits and number of zeros	J = $\pm$ 5% K = $\pm$ 10% M = $\pm$ 20%	W = Solder Coated Copper Clad Steel G = Gold Plated Copper Clad Steel	S = Standard A = MIL-PRF-20, Group A Test (C0G) A = MIL-PRF-39014 (X7R) X = Special

TCR

Case Size	Voltage	
	50	100
05 (5.08 x 5.08 x 2.54)	10 pF – 0.01 μ F	10 pF – 0.01 μ F
06 (7.62 x 7.62 x 2.54)	330 pF – 0.027 μ F	330 pF – 0.022 μ F
07 (7.62 x 7.62 x 3.81)	270 pF – 0.033 μ F	270 pF – 0.033 μ F
08 (12.7 x 12.7 x 2.54)	270 pF – 0.082 μ F	270 pF – 0.068 μ F
09 (12.7 x 12.7 x 3.81)	270 pF – 0.12 μ F	270 pF – 0.1 μ F

TCA

Case Size	Voltage	
	50	100
16 (4.32 x 2.03 x 2.03)	1 pF – 680 pF	1 pF – 560 pF
25 (6.86 x 2.54 x 2.54)	56 pF – 4.7 nF	56 pF – 4.7 nF
39 (10.16 x 3.81 x 3.81)	150 pF – 0.015 μ F	150 pF – 0.015 μ F
50 (13.21 x 6.73 x 4.06)	390 pF – 0.039 μ F	390 pF – 0.022 μ F
69 (18.29 x 9.4 x 4.06)	820 pF – 0.1 μ F	820 pF – 0.1 μ F

TRR

Case Size	Voltage	
	50	100
05 (5.08 x 5.08 x 2.54)	100 pF – 0.33 μ F	100 pF – 0.33 μ F
06 (7.62 x 7.62 x 2.54)	330 pF – 1 μ F	330 pF – 1 μ F
07 (7.62 x 7.62 x 3.81)	330 pF – 0.82 μ F	330 pF – 0.56 μ F
08 (12.7 x 12.7 x 2.54)	680 pF – 2.2 μ F	680 pF – 2 μ F
09 (12.7 x 12.7 x 3.81)	680 pF – 3.3 μ F	680 pF – 3.3 μ F

TRA

Case Size	Voltage	
	50	100
16 (4.32 x 2.03 x 2.03)	100 pF – 0.015 μ F	100 pF – 4.7 nF
25 (6.86 x 2.54 x 2.54)	100 pF – 0.12 μ F	100 pF – 0.047 μ F
39 (10.16 x 3.81 x 3.81)	180 pF – 0.33 μ F	180 pF – 0.12 μ F
50 (13.21 x 6.73 x 4.06)	390 pF – 1 μ F	390 pF – 1 μ F
69 (18.29 x 9.4 x 4.06)	820 pF – 2 μ F	820 pF – 2 μ F

Film Capacitors

Filter

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 & 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	

Filter (cont.)

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

Capacitance Range: 0.22 to 60 μF • Temperature Range: -40°C to +85°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 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
27.5 – 32 x 24.5 x 15					1 μF	
37.5 – 41.5 x 40 x 20		10 μF	10 μF	4.7 μF – 5 μF		
37.5 – 42 x 45 x 30		20 μF	15 μF	9 μF – 10 μF		4.7 μF
37.5 – 42 x 37 x 28				6.8 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

Filter (cont.)

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

Capacitance Range: 100 to 600 μF • Temperature Range: -40°C to $+75^{\circ}\text{C}$

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		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

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

Capacitance Range: 10 to 600 μF • Temperature Range: -40°C to $+80^{\circ}\text{C}$

www.kemet.com/C20A



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 = 1000	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%	

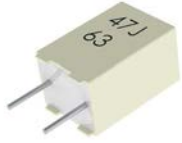
Case Size	Voltage (VDC/VAC)			
	1,280/550	1,400/640	1,700/780	2,300/1,000
65 x 117	22 μF	15 μF		20 μF
65 x 147			10 μF	
65 x 247	47 μF – 68 μF	47 μF		
75 x 117	33 μF			
75 x 147		22 μF – 33 μF	15 μF – 22 μF	15 μF – 22 μF
75 x 247	100 μF	68 μF	47 μF	33 μF
85 x 147			33 μF	
85 x 247	120 μF		68 μF	47 μF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

General Purpose

R82 Radial, Polyester, +105°C, 5 mm Lead Spacing, 50 – 400 VDC (Automotive Grade)

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

www.kemet.com/R82



R82	D	C	3470	AA	60	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	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	250/140	250/160	400/160	400/200
5 – 7.2 x 10 x 5		1 µF	680 nF	150 nF	100 nF	47 nF	33 nF
5 – 7.2 x 11 x 6	2.2 µF	1.5 µF	1 µF	220 nF	150 nF	68 nF	47 nF
5 – 7.2 x 6.5 x 2.5		100 nF – 220 nF	1 nF – 100 nF	22 nF	6.8 nF – 15 nF	6.8 nF	1 nF – 4.7 nF
5 – 7.2 x 7.5 x 3.5		330 nF – 470 nF	150 nF – 220 nF	47 nF – 68 nF	22 nF – 33 nF	15 nF	6.8 nF – 10 nF
5 – 7.2 x 9.5 x 4.5		680 nF	330 nF – 470 nF	100 nF	47 nF – 68 nF	33 nF	15 nF – 22 nF
5 – 7.2 x 13 x 7.2	3.3 µF – 4.7 µF						

RSB Radial, Polyester, +125°C, 5 mm Lead Spacing, 50 – 630 VDC (Automotive Grade)

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 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 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 13 x 7.2	3.3 µF – 4.7 µF						

General Purpose (cont.)

R60 Radial, Polyester, +105°C, 10.0 – 37.5 mm Lead Spacing, 50 – 1,000 VDC (Automotive Grade)

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 = 1000	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%

Case Size	Voltage (VDC/VAC)							
	50/30	63/40	100/63	160/90	250/160	400/200	630/220	1,000/250
10 – 13 x 11 x 5	3.3 µF	1.5 µF – 2.2 µF	1 µF – 1.5 µF	470 nF	220 nF – 330 nF	100 nF	22 nF – 47 nF	4.7 nF
10 – 13 x 12 x 6	4.7 µF – 5.6 µF	3.3 µF		680 nF	470 nF	150 nF	33 nF – 47 nF	6.8 nF
10 – 13 x 9 x 4	1.5 µF – 2.2 µF	1 µF	330 nF – 680 nF	220 nF – 330 nF	100 nF – 150 nF	33 nF – 68 nF	4.7 nF – 22 nF	1 nF – 3.3 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 13		4.7 µF	3.3 µF	2.2 µF	1 µF	470 nF – 680 nF		47 nF
15 – 18 x 12 x 6		2.2 µF			470 nF	220 nF	68 nF – 100 nF	22 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 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
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	
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 22 x 13			10 µF	6.8 µF		2.2 µF	680 nF	150 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	
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 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 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	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
37.5 – 41.5 x 24 x 13		33 µF	33 µF	33 µF	15 µF	6.8 µF	2.2 µF	

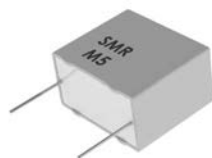
General Purpose (cont.)

SMR Polyphenylene Sulfide, +150°C, 5.0 – 27.5 mm Lead Spacing, 50 – 400 VDC

Capacitance Range: 0.001 to 22 μ F • Temperature Range: -55°C to +150°C

www.kemet.com/SMR

Legacy Part Number System



SMR	5	104	K	50	J01	L4	BULK
Series	Lead Spacing (mm)	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Size Code	Lead Length	Packaging
Metallized PPS	5 = 5.0 7.5 = 7.5 10 = 10.0 15 = 15.0 22.5 = 22.5 27.5 = 27.5	First two digits indicate the two most significant digits of the capacitance value in picofarads. The third digit is the number of following zeros.	H = $\pm 2.5\%$ J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	50 = 50 63 = 63 100 = 100 250 = 250 400 = 400	See Dimension Table	Letter "L" followed by lead length in mm	See Ordering Options Table

New KEMET Part Number System

F	211	J	F	104	K	050	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging
F = Film	Metallized PPS	J = 5.0 K = 7.5 A = 10.0 B = 15.0 D = 22.5 F = 27.5	See Dimension Table	First two digits indicate the two most significant digits of the capacitance value in picofarads. The third digit is the number of following zeros.	R = $\pm 2.5\%$ J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	050 = 50 063 = 63 100 = 100 250 = 250 400 = 400	See Ordering Options Table

Case Size	Voltage (VDC/VAC)				
	50/30	63/40	100/63	250/160	400/200
5 – 7.2 x 10 x 5	470 nF – 560 nF	270 nF – 330 nF	120 nF	56 nF	22 nF – 27 nF
5 – 7.2 x 11 x 6	680 nF – 820 nF	390 nF – 470 nF	150 nF – 180 nF	68 nF – 82 nF	33 nF – 39 nF
5 – 7.2 x 13 x 7.2	1 μ F – 1.2 μ F	560 nF – 680 nF	220 nF – 330 nF	100 nF – 120 nF	47 nF – 56 nF
5 – 7.2 x 6.5 x 2.5	1 nF – 120 nF	1 nF – 68 nF	1 nF – 39 nF	1 nF – 12 nF	1 nF – 3.9 nF
5 – 7.2 x 8 x 3.5	150 nF – 270 nF	82 nF – 150 nF	47 nF	15 nF – 27 nF	4.7 nF – 12 nF
5 – 7.2 x 9 x 4.5	330 nF – 390 nF	180 nF – 220 nF	56 nF – 100 nF	33 nF – 47 nF	15 nF – 18 nF
7.5 – 10 x 11 x 5	470 nF – 820 nF	330 nF – 560 nF	150 nF – 270 nF	56 nF – 100 nF	27 nF – 47 nF
7.5 – 10 x 8 x 4	1 nF – 390 nF	1 nF – 270 nF	1 nF – 120 nF	1 nF – 47 nF	1 nF – 22 nF
7.5 – 10.5 x 12 x 6	1 μ F – 1.2 μ F	680 nF – 820 nF	330 nF – 470 nF	120 nF – 150 nF	56 nF – 68 nF
10 – 13 x 10.5 x 4.5	820 nF	470 nF – 560 nF	270 nF	82 nF – 100 nF	39 nF
10 – 13 x 11 x 5	1 μ F – 1.2 μ F	680 nF	330 nF – 390 nF	120 nF	47 nF – 56 nF
10 – 13 x 12 x 6	1.5 μ F – 1.8 μ F	820 nF – 1 μ F	470 nF – 560 nF	150 nF – 180 nF	68 nF – 82 nF
10 – 13 x 9 x 4	2.7 nF – 680 nF	2.7 nF – 390 nF	2.7 nF – 220 nF	2.7 nF – 68 nF	2.7 nF – 33 nF
15 – 18 x 10.5 x 5.5		680 nF – 820 nF	270 nF – 470 nF	100 nF – 150 nF	47 nF – 68 nF
15 – 18 x 12.5 x 5.5		1 μ F	560 nF	180 nF	82 nF

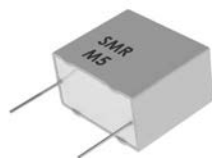
General Purpose (cont.)

SMR Polyphenylene Sulfide, +150°C, 5.0 – 27.5 mm Lead Spacing, 50 – 400 VDC (cont.)

Capacitance Range: 0.001 to 22 μ F • Temperature Range: -55°C to +150°C

www.kemet.com/SMR

Legacy Part Number System



SMR	5	104	K	50	J01	L4	BULK
Series	Lead Spacing (mm)	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Size Code	Lead Length	Packaging
Metallized PPS	5 = 5.0 7.5 = 7.5 10 = 10.0 15 = 15.0 22.5 = 22.5 27.5 = 27.5	First two digits indicate the two most significant digits of the capacitance value in picofarads. The third digit is the number of following zeros.	H = $\pm 2.5\%$ J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	50 = 50 63 = 63 100 = 100 250 = 250 400 = 400	See Dimension Table	Letter "L" followed by lead length in mm	See Ordering Options Table

New KEMET Part Number System

F	211	J	F	104	K	050	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging
F = Film	Metallized PPS	J = 5.0 K = 7.5 A = 10.0 B = 15.0 D = 22.5 F = 27.5	See Dimension Table	First two digits indicate the two most significant digits of the capacitance value in picofarads. The third digit is the number of following zeros.	R = $\pm 2.5\%$ J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	050 = 50 063 = 63 100 = 100 250 = 250 400 = 400	See Ordering Options Table

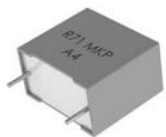
Case Size	Voltage (VDC/VAC)				
	50/30	63/40	100/63	250/160	400/200
15 – 18 x 12.5 x 6.5	2.2 μ F	1.2 μ F – 1.5 μ F	680 nF	220 nF	100 nF
15 – 18 x 14.5 x 7.5	2.7 μ F – 3.3 μ F	1.8 μ F	820 nF – 1 μ F	270 nF – 330 nF	120 nF – 150 nF
15 – 18 x 15 x 8	3.9 μ F	2.2 μ F	1.2 μ F	390 nF	180 nF
15 – 18 x 16 x 8.5		2.7 μ F	1.5 μ F	470 nF	220 nF
15 – 18 x 17.5 x 9.5	4.7 μ F – 5.6 μ F	3.3 μ F	1.8 μ F	560 nF	270 nF
22.5 – 26 x 14.5 x 6.5		2.7 μ F	1.5 μ F	470 nF	150 nF – 220 nF
22.5 – 26 x 16 x 8		3.9 μ F	2.2 μ F		330 nF
22.5 – 26 x 16.5 x 7		3.3 μ F	1.8 μ F	560 nF – 680 nF	270 nF
22.5 – 26 x 18.5 x 9	6.8 μ F – 8.2 μ F	4.7 μ F – 5.6 μ F	2.7 μ F	820 nF – 1 μ F	390 nF – 470 nF
22.5 – 26 x 19 x 10.5	10 μ F	6.8 μ F	3.3 μ F – 3.9 μ F	1.2 μ F	560 nF
22.5 – 26 x 21.5 x 11	12 μ F	8.2 μ F	4.7 μ F	1.5 μ F	680 nF
27.5 – 31.5 x 22.5 x 11.5	18 μ F	10 μ F	5.6 μ F	2.2 μ F	820 nF – 1 μ F
27.5 – 31.5 x 24.5 x 14.5	22 μ F	12 μ F – 15 μ F	6.8 μ F – 8.2 μ F	2.7 μ F	1.2 μ F
27.5 – 31.5 x 28 x 17.5		18 μ F – 22 μ F	10 μ F – 12 μ F	3.3 μ F – 3.9 μ F	1.5 μ F – 1.8 μ F
27.5 – 31.5 x 20.5 x 10.5	15 μ F			1.5 μ F – 1.8 μ F	470 nF – 680 nF

Snubber and Pulse

R71 Radial, Single Metallized Polypropylene Film, 420 – 1,000 VDC

Capacitance Range: 0.01 to 22 μF • 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 X = 450 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 0X 10 20 30 40	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$

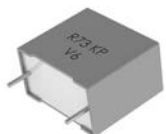
Case Size	Voltage (VDC/VAC)			
	420/220	520/250	630/275	1,000/275
10 – 13 x 11 x 5	150 nF	100 nF	33 nF – 47 nF	
10 – 13 x 12 x 6	220 nF	150 nF	68 nF – 100 nF	
10 – 13 x 9 x 4	10 nF – 100 nF	10 nF – 68 nF	10 nF – 22 nF	
15 – 18 x 11 x 5	100 nF – 220 nF	100 nF – 150 nF	10 nF – 100 nF	
15 – 18 x 12 x 13	680 nF	470 nF	330 nF	
15 – 18 x 12 x 6	330 nF	220 nF	150 nF	
15 – 18 x 12.5 x 9	470 nF	330 nF	220 nF – 330 nF	
15 – 18 x 13.5 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 μF	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 μF	470 nF	330 nF – 470 nF	
15 – 18 x 19 x 11	1.5 μF	1 μF	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 μF	680 nF	470 nF	
22.5 – 26.5 x 17 x 8.5	1.5 μF			
22.5 – 26.5 x 18.5 x 10	1.5 μF – 2.2 μF	1 μF	680 nF – 1 μF	
22.5 – 26.5 x 20 x 11	2.2 μF	1.5 μF	1 μF	
22.5 – 26.5 x 22 x 13	3.3 μF	2.2 μF		
27.5 – 32 x 17 x 9	680 nF – 1 μF	680 nF – 1 μF	680 nF	220 nF – 560 nF
27.5 – 32 x 20 x 11	1.5 μF	1 μF – 1.5 μF	1 μF	330 nF – 820 nF
27.5 – 32 x 22 x 13	2.2 μF		1.5 μF	470 nF – 1 μF
27.5 – 32 x 25 x 13	3.3 μF	2.2 μF		1.2 μF
27.5 – 32 x 28 x 14		2.2 μF – 3.3 μF	2.2 μF	680 nF – 1.8 μF
27.5 – 32 x 33 x 18	4.7 μF	3.3 μF – 4.7 μF	3.3 μF	1 μF – 2.7 μF
27.5 – 32 x 37 x 22	6.8 μF	4.7 μF – 6.8 μF	4.7 μF	1.8 μF – 3.9 μF
37.5 – 41.5 x 22 x 11		2.2 μF	1.5 μF	680 nF – 1.5 μF
37.5 – 41.5 x 24 x 13	3.3 μF	3.3 μF	2.2 μF	820 nF – 1.8 μF
37.5 – 41.5 x 28.5 x 16	4.7 μF	3.3 μF – 4.7 μF	3.3 μF	1.2 μF – 2.7 μF
37.5 – 41.5 x 32 x 19	6.8 μF	6.8 μF	4.7 μF	1.8 μF – 3.9 μF
37.5 – 41.5 x 40 x 20	10 μF	6.8 μF – 10 μF	6.8 μF	2.2 μF – 4.7 μF
37.5 – 41.5 x 44 x 24	15 μF	10 μF – 15 μF	10 μF	2.7 μF – 8.2 μF
37.5 – 41.5 x 45 x 30	22 μF	15 μF – 22 μF	15 μF	5.6 μF – 10 μF

Snubber and Pulse (cont.)

R73 Radial, Polypropylene Film/Foil, 100 – 2,000 VDC (Automotive Grade)

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%

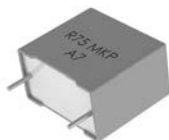
Case Size	Voltage (VDC/VAC)								
	100/63	160/90	250/125	400/160	630/300	1,000/400	1,250/450	1,600/450	2,000/500
15 – 18 x 11 x 5	47 nF	33 nF	15 nF	10 nF	10 nF – 12 nF	3.3 nF – 8.2 nF	2.2 nF – 2.7 nF	1 nF – 1.8 nF	0.1 nF – 0.68 nF
15 – 18 x 12 x 6	68 nF	47 nF	22 nF	15 nF	15 nF – 18 nF	10 nF – 12 nF	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

Snubber and Pulse (cont.)

R75 Radial, Single Metallized Polypropylene Film, 160 – 2,000 VDC (Automotive Grade)

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%

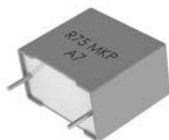
Case Size	Voltage (VDC/VAC)						
	160/70	160/90	250/140	250/160	400/200	400/220	630/220
7.5 – 10 x 10.5 x 5	120 nF – 150 nF	100 nF – 120 nF	100 nF – 120 nF	68 nF – 82 nF	33 nF – 47 nF	27 nF – 33 nF	15 nF – 18 nF
7.5 – 10 x 9 x 4	100 nF	68 nF – 82 nF	68 nF – 82 nF	27 nF – 56 nF	27 nF	10 nF – 22 nF	10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

Snubber and Pulse (cont.)

R75 Radial, Single Metallized Polypropylene Film, 160 – 2,000 VDC (Automotive Grade) (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

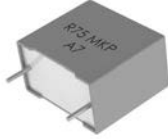
Case Size	Voltage (VDC/VAC)	
	630/250	1,000/400
7.5 – 10 x 10.5 x 5	10 nF – 12 nF	3.9 nF – 5.6 nF
7.5 – 10 x 8 x 3		0.22 nF – 1 nF
7.5 – 10 x 9 x 4	3.3 nF – 8.2 nF	1.2 nF – 3.3 nF
7.5 – 10.5 x 12 x 6	15 nF – 18 nF	6.8 nF – 8.2 nF

Snubber and Pulse (cont.)

R75 Radial, Single Metallized Polypropylene Film, 160 – 2,000 VDC (Automotive Grade) (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%

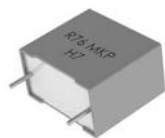
Case Size	Voltage (VDC/VAC)				
	630/250	1,000/250	1,250/600	1,600/650	2,000/700
10 – 13 x 11 x 5	15 nF – 18 nF				
10 – 13 x 12 x 6	22 nF				
10 – 13 x 9 x 4	1 nF – 12 nF				
15 – 18 x 11 x 5	27 nF – 56 nF	12 nF – 22 nF	8.2 nF – 10 nF	5.6 nF – 6.8 nF	3.9 nF – 4.7 nF
15 – 18 x 12 x 13	150 nF – 180 nF	68 nF	27 nF – 33 nF	22 nF	15 nF – 18 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 12.5 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
15 – 18 x 10 x 4				3.9 nF – 4.7 nF	1 nF – 3.3 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	220 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	330 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	

Snubber and Pulse (cont.)

R76 Radial, Double Metallized Polypropylene Film, 250 – 2,000 VDC (Automotive Grade)

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 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 x 8 x 3	6.8 nF – 10 nF	6.8 nF – 10 nF	2.7 nF – 5.6 nF	0.68 nF – 2.2 nF		0.22 nF – 0.56 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		0.68 nF – 1.2 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 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		
10 – 13 x 9 x 4	27 nF – 39 nF	27 nF – 39 nF	10 nF – 22 nF		3.9 nF – 8.2 nF		0.47 nF – 3.3 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	0.22 nF – 4.7 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 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 12.5 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		

Snubber and Pulse (cont.)

R76 Radial, Double Metallized Polypropylene Film, 250 – 2,000 VDC (Automotive Grade) (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

Snubber and Pulse (cont.)

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

Capacitance Range: 0.022 to 5 μF • 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 μF	1 μF	680 nF – 1 μF	330 nF	220 nF
37.5 – 41.5 x 44 x 24	2 μF			680 nF	330 nF
37.5 – 42 x 45 x 30		2 μF – 2.2 μF			
37.5 – 42.5 x 37 x 28		1.5 μF	1.2 μF		
52.5 – 57.5 x 45 x 30	3 μF – 4 μF	3 μF	2 μF – 2.5 μF	1 μF	470 nF
52.5 – 57.5 x 50 x 35	5 μF	4 μF – 4.7 μF	3 μF – 3.5 μF	1.5 μF	820 nF

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

Capacitance Range: 0.047 to 5 μF • 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 μF	470 nF – 1 μF	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 μF – 2.2 μF	2 μF	1.5 μF	820 nF	330 nF
42.5 x 37 x 28	1.5 μF	1.5 μF	1 μF – 1.2 μF		
57.5 x 45 x 30	2.5 μF – 3.3 μF	2.2 μF – 3.3 μF	2 μF – 2.5 μF	1 μF – 1.2 μF	470 nF
57.5 x 50 x 35	4 μF – 5 μF	4 μF	3 μF – 3.3 μF	1.5 μF	680 nF – 820 nF

Snubber and Pulse (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	

DC Link

C4DE Low Inductance, 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

C4E Brick Type, 450 VDC

Capacitance Range: 500 μ F • Temperature Range: -40°C to +115°C

www.kemet.com/C4E



C4	E	E	G	M	X	6500	AAU	K
Series	Type	Application	Rated Voltage (VDC)*	Case Style	Lead Specification	Capacitance Code (pF)	Internal Code	Tolerance
C4 = MKP Capacitors for Power Applications	E = Rectangular "Brick" case	E = Energy storage DC link/DC filter	G = 450 H = 600 I = 800 J = 700 O = 900 N = 1,000 Q = 1,100 P = 1,200 U = 1,300 Z = Special voltages	M = Plastic N = Metal Z = Special	X = Lug terminal Z = Special	Digits two – four indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added.		J = 5% K = 10%

Developed as per customer specifications. For more information, please contact KEMET.

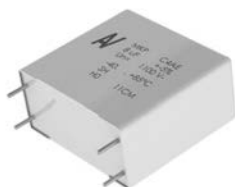
* VDC unless otherwise noted.

DC Link (cont.)

C4AE Radial, 2 or 4 Leads, 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	3.3 µF	2.7 µF	1.5 µF	1 µF
27.5 – 31.5 x 25 x 13	6.8 µF	5.6 µF	4 µF	2.7 µF	1.8 µF
27.5 – 31.5 x 28 x 14	10 µF	7 µF	5 µF	3.3 µF	2.2 µF
27.5 – 31.5 x 29 x 19	12.5 µF	10 µF	8 µF	5 µF	3.3 µF
27.5 – 31.5 x 37 x 22	20 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 45 x 30	50 µF	40 µF	30 µF	20 µF	12 µF
37.5 – 42 x 44 x 24	40 µF – 55 µF		22 µF	16 µF	
52.5 – 57.5 x 45 x 30	75 µF	55 µF	45 µF	30 µF	20 µF
52.5 – 57.5 x 50 x 35	100 µF	75 µF	55 µF – 60 µF	40 µF	25 µF – 27 µF

DC Link (cont.)

C44U Screw Terminal, 700 – 1,300 VDC

Capacitance Range: 50 to 600 µF • 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 µF	75 µF	50 µF	
76 x 70		175 µF	110 µF	75 µF	
76 x 95			200 µF – 270 µF	130 µF – 175 µF	90 µF – 120 µF
76 x 120		350 µF	220 µF	150 µF	
76 x 140		425 µF	275 µF	190 µF – 280 µF	195 µF
85 x 55		160 µF	100 µF	70 µF	
85 x 70		225 µF	150 µF	100 µF	
85 x 95			370 µF	240 µF	165 µF
85 x 120		450 µF	300 µF – 510 µF	200 µF	
85 x 124.5	600 µF				
85 x 140		550 µF	350 µF – 600 µF	250 µF – 330 µF	250 µF
85 x 155				420 µF	
85 x 174				500 µF	320 µF
85 x 264					550 µF

Motor Run

C27 Plastic Case, 250 – 500 VAC

Capacitance Range: 1 to 100 μF • Temperature Range: -25°C to $+100^{\circ}\text{C}$

www.kemet.com/C27



C27	4	A	C	2	4100	AA	4	J
Series		Marking	Case and Fixing Bolt Code	Terminal Style	Capacitance Code (pF)	Packaging	Internal Use	Tolerance
C27 = Motor Run Capacitors	4 = 30,000 hours/420 VAC (Class A) or 10,000 hours/470 VAC (Class B) 6 = 10,000 hours/420 VAC (Class B) or 3,000 hours/470 VAC (Class C) 7 = 10,000 hours/275 VAC (Class C) or 1,000 hours/425 VAC (Class D)	A = C274 C = C276 L = C277	C = Cylindrical plastic case with M8 bolt	2 = Single fasten 6.3 x 0.8 3 = Double fasten 6.3 x 0.8 A = Polar cable (tinned end) B = Polar cable (untinned end) F = Bipolar cable (40 mm unsheathed, 8 mm exposed end)	Digits two – four indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added.	AA, AF, AL, LG = Standard	0, 1, 2, 5 = Standard	J = 5%

C274

Case Size	Voltage	
	470 VAC	500 VAC
25 x 55	1 μF – 3 μF	
25 x 56.5	1 μF – 2.5 μF	
25 x 58	1.25 μF – 3 μF	
25 x 58.5	1 μF – 1.5 μF	
30 x 55	4 μF – 5 μF	
30 x 56.5	2 μF – 5 μF	
30 x 57	5.5 μF	
30 x 58.5	4 μF	
30 x 69.5	6 μF	
35 x 55	6 μF	
35 x 56.5	6 μF – 8 μF	8 μF
35 x 57	8 μF	
35 x 71.5	12 μF	
35 x 73.5	9 μF – 12.5 μF	
40 x 71.5	16 μF	
40 x 73.5	14 μF – 16 μF	
45 x 74	18 μF – 20 μF	
45 x 93	25 μF – 31.5 μF	
45 x 95.5	30 μF	
50 x 95	35 μF	
50 x 120	40 μF – 50 μF	
55 x 120	55 μF	
55 x 121	60 μF	

Motor Run (cont.)

C27 Plastic Case, 250 – 500 VAC (cont.)

Capacitance Range: 1 to 100 μF • Temperature Range: -25°C to $+100^{\circ}\text{C}$

www.kemet.com/C27



C27	4	A	C	2	4100	AA	4	J
Series		Marking	Case and Fixing Bolt Code	Terminal Style	Capacitance Code (pF)	Packaging	Internal Use	Tolerance
C27 = Motor Run Capacitors	4 = 30,000 hours/420 VAC (Class A) or 10,000 hours/470 VAC (Class B) 6 = 10,000 hours/420 VAC (Class B) or 3,000 hours/470 VAC (Class C) 7 = 10,000 hours/275 VAC (Class C) or 1,000 hours/425 VAC (Class D)	A = C274 C = C276 L = C277	C = Cylindrical plastic case with M8 bolt	2 = Single fasten 6.3 x 0.8 3 = Double fasten 6.3 x 0.8 A = Polar cable (tinned end) B = Polar cable (untinned end) F = Bipolar cable (40 mm unsheathed, 8 mm exposed end)	Digits two – four indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added.	AA, AF, AL, LG = Standard	0, 1, 2, 5 = Standard	J = 5%

C276

Case Size	Voltage	
	450 VAC	470 VAC
25 x 55		3 μF – 4 μF
25 x 56.5		1 μF – 4 μF
25 x 57		3 μF
25 x 58		1.5 μF – 4 μF
25 x 58.5		2 μF – 4 μF
30 x 55		5 μF – 7 μF
30 x 56.5	6 μF	5 μF – 7 μF
30 x 57		5 μF
30 x 58.5		5.5 μF – 6 μF
35 x 55		8 μF – 9 μF
35 x 56.5	8 μF – 10 μF	8 μF – 11 μF
35 x 58.5		8 μF – 10 μF
35 x 69.5		12 μF – 16 μF
35 x 71.5		12 μF – 16 μF
35 x 73.5		12 μF – 16 μF
35 x 74	12 μF	16 μF
35 x 94.5	25 μF	
35 x 95.5		20 μF
40 x 69.5		20 μF
40 x 71.5		20 μF
40 x 73.5		17.5 μF – 22 μF
40 x 74	20 μF	
40 x 94		25 μF
45 x 71.5		25 μF – 30 μF
45 x 74	25 μF – 30 μF	30 μF
45 x 93		31.5 μF – 40 μF
45 x 94	40 μF	
45 x 95.5		35 μF – 40 μF
45 x 120		60 μF
50 x 95		45 μF
50 x 120		50 μF – 60 μF
55 x 93.5		60 μF

C277

Case Size	Voltage
	425 VAC
25 x 55	4 μF – 5 μF
25 x 56.5	5 μF
30 x 55	7 μF – 9 μF
35 x 74	16 μF
40 x 95.5	30 μF
45 x 93	50 μF
50 x 95	70 μF

Motor Run (cont.)

C87 Aluminum Case, 470 VAC

Capacitance Range: 1 to 80 μ F • Temperature Range: -25°C to +85°C

www.kemet.com/C87



C87	8	B	F	3	4300	AA	4	J
Series	Marking	Case & Fixing Bolt Code	Terminal Style	Capacitance Code (μ F)	Packaging	Internal Use	Tolerance	
C87 = Motor Run Capacitors	0 = 10,000 hours/420 VAC (Class B) or 3,000 hours/470 VAC (Class C) 8 = 30,000 hours/420 VAC (Class A) or 10,000 hours/470 VAC (Class B)	C870: C = Standard D = UL Z = Special C878: A = Standard B = UL Z = Special	F = Cylindrical aluminum can with M8 bolt G = Cylindrical aluminum can with M12 bolt E = Without fixing bolt/flat bottom	1 = Single faston 2.8 x 0.8 (hole) 2 = Single faston 6.3 x 0.8 3 = Double faston 6.3 x 0.8 4 = Single faston 2.8 x 0.8 (slot) 5 = Single faston 2.8 x 0.5 (hole)	Digits two – four indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added.	AA = Standard	0, 1, 2, 4, 5 = Standard	J = 5% K = 10% R = 0 to +10% X = Special tolerance

C870

Case Size	Voltage
	470 VAC
35 x 98	20 μ F
40 x 78	16 μ F – 22 μ F
40 x 98	25 μ F – 30 μ F
45 x 78	25 μ F
45 x 98	35 μ F – 40 μ F
45 x 133	45 μ F
50 x 133	50 μ F – 80 μ F
55 x 133	70 μ F – 100 μ F
60 x 98	60 μ F
60 x 133	75 μ F – 110 μ F

C878

Case Size	Voltage	
	450 VAC	470 VAC
30 x 48	1 μ F – 3 μ F	1 μ F – 3 μ F
30 x 60	5 μ F	
30 x 78	6 μ F – 8 μ F	6 μ F – 8 μ F
35 x 48	3.5 μ F – 4 μ F	3.5 μ F – 5 μ F
35 x 60		7.5 μ F
35 x 78	10 μ F – 12 μ F	6 μ F – 12.5 μ F
35 x 98		16 μ F
40 x 78	15 μ F – 16 μ F	12 μ F – 16 μ F
40 x 98		16 μ F
45 x 78	20 μ F – 23 μ F	18 μ F – 22.5 μ F
45 x 98	25 μ F – 30 μ F	25 μ F – 31.5 μ F
45 x 133	46 μ F	30 μ F – 40 μ F
50 x 133	50 μ F – 60 μ F	40 μ F – 60 μ F
55 x 133		50 μ F
60 x 133		60 μ F – 80 μ F

Supercapacitors

Surface Mount

FC Series, 3.5 V – 5.5 V, 70°C

Capacitance Range: 0.1 to 1 F • Temperature Range: -25°C to +70°C

www.kemet.com/FC



FC	0H	104	Z	F	TB	R	24	-SS
Series	Maximum Operating Voltage	Capacitance Code (F)	Capacitance Tolerance	Environmental	Tape Type	Orientation	Tape Width	C-Spec
FCS FC	0V = 3.5 VDC 0H = 5.5 VDC	First two digits represent significant figures. Third digit specifies number of zeros.	Z = -20/+80%	F = Lead-free	TB = Embossed	R = Positive electrode forward	24 = 24 mm 32 = 32 mm 44 = 44 mm	-SS = 3 digit serial number marked on top Blank = No serial number marking

FC

Case Size	Voltage	
	3.5	5.5
10.5 x 5.5	0.1 F – 0.22 F	0.047 F – 0.1 F
10.5 x 8.5	0.47 F	0.22 F
16 x 9.5		0.47 F
21 x 10.5		1 F

FCS

Case Size	Voltage	
	3.5	5.5
10.7 x 5.5	0.1 F – 0.22 F	0.047 F – 0.1 F
10.7 x 8.5	0.47 F	0.22 F

Radial

HVZ, 2.5 – 2.7 V, 60°C and 70°C

Capacitance Range: 1 to 200 F • Temperature Range: -25°C to +60°C and -25°C to +70°C

www.kemet.com/HVZ



HVZ	0E	105	N	F	-LT
Series	Maximum Operating Voltage	Capacitance Code (F)	Capacitance Tolerance	Environmental	Terminal
HVZ	0E = 2.7 VDC (50 F type has 2.5 VDC)	First two digits represent significant figures. Third digit specifies number of zeros.	N = ±30%	F = Lead-free	-LT = Snap-in Blank = Standard

Case Size	Voltage	
	2.5	2.7
8 x 12		1 F
8 x 22		2.7 F
10 x 20		4.7 F
10 x 35		10 F
12.5 x 35		22 F
18 x 40	50 F	
25 x 50		100 F
35 x 50		200 F

Radial (cont.)

FA, 5.5 – 11 V, 70°C

Capacitance Range: 0.022 to 1 F • Temperature Range: -25°C to +70°C

www.kemet.com/FA



FA	0H	104	Z	F
Series	Maximum Operating Voltage	Capacitance Code (F)	Capacitance Tolerance	Environmental
FA	0H = 5.5 VDC 1A = 11.0 VDC	First two digits represent significant figures. Third digit specifies number of zeros.	Z = -20/+80%	F = Lead-free

Case Size	Voltage	
	5.5	11
16 x 15.5	0.047 F	
16 x 25		0.022 F
21.5 x 15.5	0.1 F	
28.5 x 16.5	0.22 F	
28.5 x 25.5		0.1 F
36.5 x 16.5	0.47 F	
36.5 x 27.5		0.22 F
44.5 x 18.5	1 F	
44.5 x 28.5		0.47 F

FE, 5.5 V, 70°C

Capacitance Range: 0.047 to 1.5 F • Temperature Range: -40°C to +70°C

www.kemet.com/FE



FE	0H	104	Z	F
Series	Maximum Operating Voltage	Capacitance Code (F)	Capacitance Tolerance	Environmental
FE	0H = 5.5 VDC	First two digits represent significant figures. Third digit specifies number of zeros.	Z = -20/+80%	F = Lead-free

Case Size	Voltage
	5.5
14.5 x 14	0.047 F
16.5 x 14	0.1 F
21.5 x 15.5	0.22 F
28.5 x 16.5	0.47 F
36.5 x 18.5	1 F
44.5 x 18.5	1.5 F

Radial (cont.)

FS, 5.5 – 12 V, 70°C

Capacitance Range: 0.022 to 5 F • Temperature Range: -25°C to +70°C

www.kemet.com/FS



FS	0H	104	Z	F
Series	Maximum Operating Voltage	Capacitance Code (F)	Capacitance Tolerance	Environmental
FS	0H = 5.5 VDC 1A = 11.0 VDC 1B = 12.0 VDC	First two digits represent significant figures. Third digit specifies number of zeros.	Z = -20/+80%	F = Lead-free

Case Size	Voltage		
	5.5	11	12
11.5 x 8.5	0.022 F		
13 x 8.5	0.047 F		
16.5 x 8.5	0.1 F		
16.5 x 13	0.22 F		
21.5 x 13	0.47 F		
28.5 x 14	1 F		
28.5 x 25.5		0.47 F	
28.5 x 31.5		1 F	
28.5 x 38			1 F
44.8 x 60			5 F

FY, 5.5 V, 70°C

Capacitance Range: 0.01 to 2.2 F • Temperature Range: -25°C to +70°C

www.kemet.com/FY



FY	0H	104	Z	F
Series	Maximum Operating Voltage	Capacitance Code (F)	Capacitance Tolerance	Environmental
FYD FYH FYL	0H = 5.5 VDC	First two digits represent significant figures. Third digit specifies number of zeros.	Z = -20/+80%	F = Lead-free

FYD

Case Size	Voltage
	5.5
11.5 x 8.5	0.022 F – 0.047 F
13 x 8.5	0.1 F
14.5 x 15	0.22 F
16.5 x 15	0.47 F
21.5 x 16	1 F
21.5 x 19	1.4 F
28.5 x 22	2.2 F

FYH

Case Size	Voltage
	5.5
11.5 x 7	0.022 F
13 x 7	0.047 F
16.5 x 7.5	0.1 F
16.5 x 9.5	0.22 F
21.5 x 10	0.47 F
28.5 x 11	1 F

FYL

Case Size	Voltage
	5.5
11 x 5	0.01 F – 0.022 F
12 x 5	0.047 F

Radial (cont.)

FG, 3.5 – 5.5 V, 70°C and 85°C

Capacitance Range: 0.01 to 4.7 F

Temperature Range: -25°C to +70°C (FG, FGH) and -40°C to +85°C (FGR)

www.kemet.com/FG



FG	0H	104	Z	F
Series	Maximum Operating Voltage	Capacitance Code (F)	Capacitance Tolerance	Environmental
FG FGH FGR	0V = 3.5 VDC 0H = 5.5 VDC	First two digits represent significant figures. Third digit specifies number of zeros.	Z = -20/+80%	F = Lead-free

Case Size	Voltage	
	3.5	5.5
11 x 5.5		0.01 F – 0.047 F
11 x 6.5		0.1 F
13 x 9		0.22 F
14.5 x 18		0.47 F
16.5 x 14	1.5 F	
16.5 x 19		1 F
21.5 x 19		2.2 F
28.5 x 22		4.7 F

FM, 3.5 – 6.5 V, 70°C & 85°C

Capacitance Range: 0.01 to 0.22 F

Temperature Range: -25°C to +70°C (all types except FMR) and -40°C to +85°C (FMR)

www.kemet.com/FM



FM	0H	223	Z	F	TP	16
Series	Maximum Operating Voltage	Capacitance Code (F)	Capacitance Tolerance	Environmental	Tape Type	Height (excluding lead)
FM FME FML FMR FMC	0V = 3.5 VDC 0H = 5.5 VDC 0J = 6.5 VDC	First two digits represent significant figures. Third digit specifies number of zeros.	Z = -20/+80%	F = Lead-free	TP = AMMO L1 = Transverse mounting Blank = Bulk	16 = 16 mm 18 = 18 mm Blank = Bulk

Case Size	Voltage		
	3.5	5.5	6.5
11.5 x 10.5 x 5	0.047 F – 0.1 F	0.01 F – 0.047 F	
11.5 x 10.5 x 6.5	0.22 F	0.1 F – 0.22 F	0.047 F

Radial (cont.)

FR, 5.5 V, 85°C

Capacitance Range: 0.022 to 1 F • Temperature Range: -40°C to +85°C

www.kemet.com/FR



FR	0H	104	Z	F
Series	Maximum Operating Voltage	Capacitance Code (F)	Capacitance Tolerance	Environmental
FR	0H = 5.5 VDC	First two digits represent significant figures. Third digit specifies number of zeros.	Z = -20/+80%	F = Lead-free

Case Size	Voltage
	5.5
11.5 x 14	0.022 F
14.5 x 14	0.047 F
14.5 x 15.5	0.1 F
14.5 x 21	0.22 F
16.5 x 21.5	0.47 F
21.5 x 22	1 F

FT, 5.5 V, 85°C

Capacitance Range: 0.1 to 5.6 F • Temperature Range: -40°C to +85°C

www.kemet.com/FT



FT	0H	104	Z	F
Series	Maximum Operating Voltage	Capacitance Code (F)	Capacitance Tolerance	Environmental
FT FTW	0H = 5.5 VDC	First two digits represent significant figures. Third digit specifies number of zeros.	Z = -20/+80%	F = Lead-free

Case Size	Voltage
	5.5
11.5 x 8.5	0.1 F
14.5 x 12	0.22 F
16.5 x 13	0.47 F
21.5 x 13	1 F
28.5 x 14	2.2 F
36.5 x 15	3.3 F
44.5 x 17	5.6 F

Tantalum Capacitors

KO-CAP® Polymer Electrolytic

T520 Polymer Electrolytic, 2 – 25 V

Capacitance Range: 10 to 1,500 μF • Temperature Range: -55°C to $+105^{\circ}\text{C}$

www.kemet.com/T520



T	520	V	157	M	006	A	T	E045	
Capacitor Class	Series	Case Size	Capacitance Code (μF)	Capacitance Tolerance	Rated Voltage (VDC)	Failure Rate/Design	Termination Finish	ESR Code	Packaging (C-Spec)
T = Tantalum	520 = Polymer	A, B, C, D, H, L, M, Q, T, U, V, W, X, Y	First two digits represent significant figures. Third digit specifies number of zeros.	M = $\pm 20\%$	2R5 = 2.5 003 = 3 004 = 4 006 = 6.3 008 = 8 010 = 10 011 = 11 12R = 12.5 016 = 16 020 = 20 025 = 25	A = N/A	T = 100% Matte Tin (Sn) plated H = Tin/Lead (SnPb) solder coated (5% Pb minimum) P* = Ni-Pd-Au plated N = Non-magnetic 100% Tin (Sn) M = Non-magnetic (SnPb)	E = ESR Last three digits specify ESR in m Ω . (045 = 45 m Ω)	Blank = 7" Reel 7280 = 13" Reel

Case Size	Voltage						
	2	2.5	3	4	6.3	8	10
A/3216 – 18		47 μF – 220 μF		33 μF – 100 μF	22 μF – 100 μF		10 μF – 22 μF
B/3528 – 20					150 μF		
B/3528 – 21		100 μF – 330 μF	100 μF – 150 μF	68 μF – 220 μF	33 μF – 330 μF	33 μF – 47 μF	33 μF – 100 μF
C/6032 – 28		220 μF – 470 μF		150 μF – 330 μF	33 μF – 220 μF	82 μF	47 μF – 150 μF
D/7343 – 31		220 μF – 1 mF	680 μF	150 μF – 680 μF	150 μF – 470 μF	150 μF	68 μF – 220 μF
H/7360 – 20					1 mF – 1.5 mF		820 μF
J/7360 – 15							330 μF
L/6032 – 19		330 μF		220 μF	150 μF		100 μF
M/3528 – 15					150 μF		
Q/7343 – 12							
T/3528 – 12		100 μF – 220 μF		15 μF – 100 μF	15 μF – 150 μF	22 μF – 33 μF	33 μF
U/6032 – 15		150 μF – 220 μF		68 μF – 150 μF	68 μF – 150 μF	33 μF	33 μF – 68 μF
V/7343 – 19	470 μF	220 μF – 470 μF	330 μF	150 μF – 330 μF	100 μF – 470 μF	150 μF	68 μF – 220 μF
W/7343 – 15		220 μF – 330 μF		220 μF	100 μF – 470 μF		68 μF – 100 μF
X/7343 – 43		1 mF – 1.5 mF	1 mF	680 μF	470 μF – 680 μF		330 μF
Y/7343 – 40		680 μF – 1 mF		680 μF	330 μF – 680 μF		150 μF – 330 μF

Case Size	Voltage				
	11	12.5	16	20	25
B/3528 – 21			10 μF		
C/6032 – 28			22 μF		
D/7343 – 31			47 μF – 68 μF		15 μF
Q/7343 – 12	47 μF				
T/3528 – 12		10 μF – 15 μF			
U/6032 – 15					
V/7343 – 19			33 μF – 47 μF	22 μF	15 μF
W/7343 – 15			33 μF – 47 μF		
X/7343 – 43			150 μF		

KO-CAP® Polymer Electrolytic (cont.)

T521 High Voltage Polymer Electrolytic, 12.5 – 75 V

Capacitance Range: 15 to 330 μF • Temperature Range: -55°C to $+105^{\circ}\text{C}$ and -55°C to $+125^{\circ}\text{C}$

www.kemet.com/T521



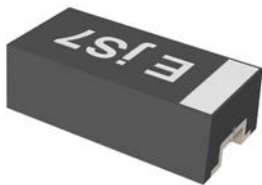
T	521	V	226	M	025	A	T	E060	
Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Failure Rate/Design	Termination Finish	ESR Code	Packaging (C-Spec)
T = Tantalum	521 = High Voltage Polymer	B T D Q V W X	First two digits represent significant figures. Third digit specifies number of zeros.	M = $\pm 20\%$	12R = 12.5 016 = 16 020 = 20 025 = 25 035 = 35 050 = 50 063 = 63 075 = 75	A = N/A	T = 100% Matte Tin (Sn) plated H = Tin/Lead (SnPb) solder coated (5% Pb minimum) P = Ni/Pd/Au plated	E = ESR Last three digits specify ESR in m Ω . (060 = 60 m Ω)	Blank = 7" Reel 7280 = 13" Reel

Case Size	Voltage							
	12.5	16	20	25	35	50	63	75
B/3528 – 21		10 μF – 22 μF	10 μF – 22 μF	10 μF	10 μF			
D/7343 – 31		47 μF – 150 μF	47 μF – 100 μF	33 μF – 100 μF	22 μF – 33 μF	5.6 μF – 22 μF	4.7 μF	4.7 μF
O/7360 – 43		470 μF						
Q/7343 – 12		33 μF						
T/3528 – 12	47 μF	33 μF		10 μF	6.8 μF			
V/7343 – 20		47 μF – 100 μF	22 μF – 100 μF	15 μF – 33 μF	10 μF – 15 μF	5.6 μF – 10 μF		
W/7343 – 15		47 μF	47 μF	22 μF				
X/7343 – 43		150 μF – 330 μF		100 μF	47 μF	18 μF – 33 μF	10 μF – 15 μF	10 μF – 15 μF

T527 Facedown Terminal Polymer Tantalum

Capacitance Range: 22 to 100 μF • Temperature Range: -55°C to $+105^{\circ}\text{C}$

www.kemet.com/T527



T	527	I	476	M	006	A	T	E200
Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Failure Rate/Design	Termination Finish	ESR Code
T = Tantalum	527 = Facedown Terminal Polymer	I = 3216	First two digits represent significant figures. Third digit specifies number of zeros. ex. 476 = 47 μF	M = $\pm 20\%$	004 = 4 006 = 6.3 010 = 10	A = N/A	T = 100% Tin (Sn)	E = ESR Last three digits specify ESR in m Ω . (200 = 200 m Ω)

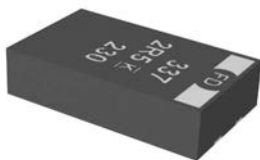
Case Size	Voltage		
	4	6.3	10
I/3216 – 10	100 μF	47 μF – 100 μF	22 μF – 47 μF

KO-CAP® Polymer Electrolytic (cont.)

T528 Series Low ESL Facedown Terminal Polymer Tantalum

Capacitance Range: 33 to 470 μ F • Temperature Range: -55°C to +105°C

www.kemet.com/T528



T	528	Z	337	M	2R5	A	T	E009	
Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Failure Rate/Design	Termination Finish	ESR Code	Packaging (C-Spec)
T = Tantalum	528 = Low ESL Facedown Terminal Polymer	B = 3528-21 W = 7343-15 Z = 7343-17	First two digits represent significant figures. Third digit specifies number of zeros.	M = $\pm 20\%$	002 = 2 2R5 = 2.5 004 = 4 006 = 6.3	A = N/A	T = 100% Matte Tin (Sn) plated P = Ni-Pd-Au plated	E = ESR Last three digits specify ESR in m Ω (009 = 9 m Ω)	Blank = 7" Reel 7280 = 13" Reel

Case Size	Voltage			
	2	2.5	4	6.3
B/3528 - 20	270 μ F	270 μ F		
W/7343 - 15		330 μ F		
Z/7343 - 17		220 μ F - 470 μ F	220 μ F - 330 μ F	150 μ F - 220 μ F

T529 Series Small Case Size Substrate Terminal Polymer Tantalum

Capacitance Range: 22 to 150 μ F • Temperature Range: -55°C to +105°C

www.kemet.com/T529



T	529	P	476	M	006	A	A	E200
Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Failure Rate/Design	Termination Finish	ESR Code
T = Tantalum	529 = Substrate Terminal Polymer	P = 2012-10 I = 3216-10	First two digits represent significant figures. Third digit specifies number of zeros. ex. 476 = 47 μ F	M = $\pm 20\%$	006 = 6.3 010 = 10	A = N/A	A = Ni - Au	E = ESR Last three digits specify ESR in m Ω (200 = 200 m Ω)

Case Size	Voltage	
	6.3	10
I/3216 - 10	150 μ F	
P/2012 - 10	22 μ F - 47 μ F	10 μ F - 47 μ F

KO-CAP® Polymer Electrolytic (cont.)

T591/T598 High Humidity/High Temperature Polymer Electrolytic

Capacitance Range: 10 to 330 µF • Temperature Range: -55°C to +105°C/+125°C

www.kemet.com/T591-T598



T	59X	D	107	M	010	A	T	E025
Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Failure Rate/Design	Termination Finish	ESR
T = Tantalum	591 = 500 Hours Load Humidity 598 = AEC-Q200 Qualified	B D V X	First two digits represent significant figures. Third digit specifies number of zeros.	M = ±20%	2R5 = 2.5 006 = 6.3 010 = 10 016 = 16 020 = 20 025 = 25 035 = 35 050 = 50	A = N/A	T = 100% Tin (Sn)	Maximum ESR in mΩ, 025 = 25 mΩ

T591

Case Size	Voltage								
	2.5	4	6.3	10	16	20	25	35	50
B/3528 – 21			33 µF – 47 µF	33 µF – 47 µF					
D/7343 – 31			330 µF	100 µF – 220 µF	47 µF – 100 µF	47 µF	22 µF – 33 µF	10 µF – 33 µF	10 µF
V/7343 – 20	220 µF – 330 µF	220 µF	150 µF	100 µF				10 µF	
X/7343 – 43								47 µF	

T598

Case Size	Voltage				
	6.3	10	16	25	35
B/3528 – 21	33 µF – 47 µF	33 µF – 47 µF			
D/7343 – 31	330 µF	100 µF – 220 µF	100 µF	33 µF – 47 µF	10 µF – 33 µF
V/7343 – 20					10 µF
X/7343 – 43					33 µF

Tantalum Capacitors

MnO₂

T491 Industrial Grade MnO₂, 2.5 – 50 V

Capacitance Range: 0.1 to 1,000 µF • Temperature Range: -55°C to +125°C

www.kemet.com/T491



T	491	X	157	K	020	A	T	
Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Failure Rate/Design	Termination Finish	Packaging (C-Spec)
T = Tantalum	Industrial	A, B, C, D, E, M, S, T, U, V, W, X	First two digits represent significant figures. Third digit specifies number of zeros.	K = ±10% M = ±20%	2R5 = 2.5 003 = 3 004 = 4 006 = 6.3 010 = 10 016 = 16 020 = 20 025 = 25 035 = 35 050 = 50	A = N/A	T = 100% Matte Tin (Sn) plated H = Standard solder coated (SnPb 5% Pb minimum) G = Gold plated (A, B, C, D, X only) N = Non-magnetic 100% Tin (Sn) M = Non-magnetic (SnPb)	Blank = 7" Reel 7280 = 13" Reel

Case Size	Voltage									
	2.5	3	4	6.3	10	16	20	25	35	50
A/3216 – 18		33 µF	3.3 µF – 100 µF	2.2 µF – 68 µF	1 µF – 33 µF	1 µF – 15 µF	470 nF – 10 µF	330 nF – 4.7 µF	100 nF – 2.2 µF	100 nF – 1 µF
B/3528 – 21			10 µF – 220 µF	6.8 µF – 150 µF	2.2 µF – 100 µF	2.2 µF – 33 µF	2.2 µF – 33 µF	1 µF – 15 µF	470 nF – 4.7 µF	150 nF – 1 µF
C/6032 – 28			22 µF – 330 µF	15 µF – 330 µF	10 µF – 220 µF	4.7 µF – 100 µF	4.7 µF – 68 µF	2.2 µF – 33 µF	1.5 µF – 15 µF	470 nF – 3.3 µF
D/7343 – 31	220 µF		68 µF – 680 µF	47 µF – 470 µF	22 µF – 330 µF	22 µF – 220 µF	15 µF – 100 µF	6.8 µF – 68 µF	3.3 µF – 33 µF	1.5 µF – 10 µF
E/7360 – 38			1 mF	330 µF – 680 µF	330 µF – 470 µF	220 µF	100 µF	100 µF	47 µF	
M/3528 – 15				100 µF						
S/3216 – 12			6.8 µF – 22 µF	4.7 µF – 15 µF	3.3 µF – 10 µF	2.2 µF	1 µF – 1.5 µF	1 µF		
T/3528 – 12	100 µF		15 µF – 100 µF	10 µF – 47 µF	6.8 µF – 33 µF	4.7 µF – 10 µF	3.3 µF			
U/6032 – 15			33 µF – 150 µF	22 µF – 150 µF	15 µF – 100 µF	10 µF – 33 µF	6.8 µF – 10 µF			
V/7343 – 20			150 µF – 330 µF	47 µF – 470 µF	33 µF – 330 µF	47 µF – 100 µF	22 µF – 33 µF	15 µF – 22 µF	6.8 µF – 10 µF	1 µF
W/7343 – 15			220 µF	150 µF – 220 µF	68 µF – 100 µF	68 µF				
X/7343 – 43			330 µF – 1 mF	150 µF – 1 mF	150 µF – 470 µF	100 µF – 220 µF	47 µF – 150 µF	33 µF – 100 µF	15 µF – 47 µF	6.8 µF – 22 µF

MnO₂ (cont.)

T494 Industrial Grade Low ESR MnO₂, 2.5 – 50 V

Capacitance Range: 0.1 to 1,000 µF • Temperature Range: -55°C to +125°C

www.kemet.com/T494



T	494	T	336	M	004	A	T	
Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Failure Rate/Design	Termination Finish	Packaging (C-Spec)
T = Tantalum	Industrial – Low ESR	A, B, C, D, E, S, T, U, V, X	First two digits represent significant figures. Third digit specifies number of zeros.	K = ±10% M = ±20%	2R5 = 2.5 003 = 3 004 = 4 006 = 6.3 010 = 10 016 = 16 020 = 20 025 = 25 035 = 35 050 = 50	A = N/A	T = 100% Matte Tin (Sn) plated H = Standard solder coated (SnPb 5% Pb minimum) G = Gold plated (A, B, C, D, X only) N = Non-magnetic 100% Tin (Sn) M = Non-magnetic (SnPb)	Blank = 7" Reel 7280 = 13" Reel

Case Size	Voltage									
	2.5	3	4	6.3	10	16	20	25	35	50
A/3216 – 18		33 µF	3.3 µF – 100 µF	2.2 µF – 68 µF	1.5 µF – 33 µF	1 µF – 10 µF	680 nF – 10 µF	330 nF – 4.7 µF	100 nF – 2.2 µF	100 nF – 1 µF
B/3528 – 21			10 µF – 220 µF	6.8 µF – 150 µF	2.2 µF – 68 µF	3.3 µF – 33 µF	2.2 µF – 33 µF	1 µF – 15 µF	470 nF – 4.7 µF	220 nF – 1 µF
C/6032 – 28			22 µF – 330 µF	15 µF – 220 µF	10 µF – 150 µF	6.8 µF – 100 µF	4.7 µF – 68 µF	2.2 µF – 33 µF	1.5 µF – 10 µF	470 nF – 2.2 µF
D/7343 – 31	220 µF		68 µF – 680 µF	47 µF – 470 µF	33 µF – 330 µF	22 µF – 150 µF	15 µF – 100 µF	10 µF – 68 µF	4.7 µF – 33 µF	1.5 µF – 10 µF
E/7360 – 38			1 mF	330 µF – 680 µF	330 µF – 470 µF	220 µF	100 µF		47 µF	
S/3216 – 12			6.8 µF – 22 µF	4.7 µF – 15 µF	3.3 µF – 10 µF	2.2 µF	1 µF – 1.5 µF			
T/3528 – 12	100 µF		15 µF – 100 µF	10 µF – 47 µF	6.8 µF – 33 µF	4.7 µF – 10 µF	3.3 µF			
U/6032 – 15			33 µF – 100 µF	22 µF – 100 µF	15 µF – 68 µF	10 µF – 33 µF	6.8 µF – 10 µF			
V/7343 – 20			150 µF – 330 µF	100 µF – 220 µF	33 µF – 150 µF	47 µF – 100 µF	22 µF – 33 µF	22 µF	10 µF	1 µF
X/7343 – 43			470 µF – 1 mF	220 µF – 680 µF	150 µF – 470 µF	100 µF – 220 µF	68 µF – 150 µF	33 µF – 100 µF	15 µF – 47 µF	6.8 µF – 22 µF

Tantalum Capacitors

MnO₂ (cont.)

T498 Automotive Grade MnO₂ 150°C, 4 – 50 V

Capacitance Range: 0.331 to 220 µF • Temperature Range: -55°C to +150°C

www.kemet.com/T498



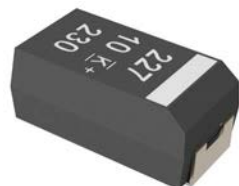
T	498	X	227	M	010	A	T	E500	
Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Failure Rate/Design	Termination Finish	ESR	Packaging (C-Spec)
T = Tantalum	High Temperature 150°C	A B C D X	First two digits represent significant figures. Third digit specifies number of zeros.	K = ±10% M = ±20%	004 = 4 006 = 6.3 010 = 10 015 = 15 020 = 20 025 = 25 035 = 35 050 = 50	A = N/A	T = 100% Matte Tin (Sn) plated* G = Gold plated H = Standard solder coated (SnPb 5% Pb minimum)	E = ESR Last three digits specify ESR in mΩ (500 = 500 mΩ)	Blank = 7" Reel 7280 = 13" Reel

Case Size	Voltage							
	4	6.3	10	16	20	25	35	50
A/3216 – 18	6.8 µF – 15 µF	2.2 µF – 10 µF	1.5 µF – 10 µF	1 µF – 6.8 µF	680 nF – 1.5 µF	470 nF – 1 µF	100 nF – 1 µF	100 nF
B/3528 – 21	10 µF – 33 µF	6.8 µF – 33 µF	4.7 µF – 22 µF	3.3 µF – 10 µF	2.2 µF – 4.7 µF	1.5 µF – 2.2 µF	470 nF – 1 µF	150 nF – 330 nF
C/6032 – 28	22 µF – 68 µF	15 µF – 68 µF	10 µF – 47 µF	6.8 µF – 47 µF	4.7 µF – 15 µF	3.3 µF – 10 µF	1.5 µF – 4.7 µF	470 nF – 1 µF
D/7343 – 31	68 µF – 150 µF	47 µF – 150 µF	33 µF – 100 µF	22 µF – 68 µF	15 µF – 33 µF	6.8 µF – 33 µF	4.7 µF – 22 µF	1.5 µF – 10 µF
X/7343 – 43			150 µF – 220 µF	100 µF			15 µF – 47 µF	6.8 µF – 10 µF

T499 Automotive Grade MnO₂ 175°C, 6 – 50 V

Capacitance Range: 0.15 to 220 µF • Temperature Range: -55°C to +175°C

www.kemet.com/T499



T	499	X	227	M	010	A	T	E500	
Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Failure Rate/Design	Termination Finish	ESR	Packaging (C-Spec)
T = Tantalum	High Temperature 175°C	A B C D X	First two digits represent significant figures. Third digit specifies number of zeros.	K = ±10% M = ±20%	006 = 6.3 010 = 10 015 = 15 020 = 20 025 = 25 035 = 35 050 = 50	A = N/A	T = 100% Matte Tin (Sn) plated G = Gold plated H = Standard solder coated (SnPb 5% Pb minimum)	E = ESR Last three digits specify ESR in mΩ (500 = 500 mΩ)	Blank = 7" Reel 7280 = 13" Reel 7027 = Moisture Barrier Bag

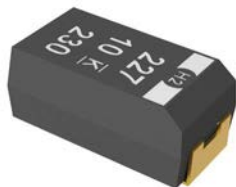
Case Size	Voltage						
	6.3	10	16	20	25	35	50
A/3216 – 18		1.5 µF – 6.8 µF	1 µF – 6.8 µF	680 nF – 1.5 µF	470 nF – 1.5 µF	150 nF – 1 µF	
B/3528 – 21	6.8 µF – 33 µF	4.7 µF – 22 µF	3.3 µF – 10 µF	2.2 µF – 4.7 µF	2.2 µF	470 nF – 1 µF	
C/6032 – 28	22 µF – 68 µF	10 µF – 33 µF	6.8 µF – 22 µF	4.7 µF – 15 µF	3.3 µF – 10 µF	1.5 µF – 4.7 µF	
D/7343 – 31	47 µF – 100 µF	33 µF – 100 µF	22 µF – 47 µF	15 µF – 22 µF	6.8 µF – 33 µF	6.8 µF – 10 µF	3.3 µF – 10 µF
X/7343 – 43		220 µF	100 µF			22 µF – 33 µF	

MnO₂ (cont.)

T500 MnO₂ 200°C, 10 – 35 V

Capacitance Range: 33 to 220 µF • Temperature Range: -55°C to +200°C

www.kemet.com/T500



T	500	X	227	M	010	A	G	61	10
Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Failure Rate/ Design	Termination Finish	Performance	ESR
T = Tantalum	High Temperature 200°C	X	First two digits represent significant figures. Third digit specifies number of zeros.	K = ±10% M = ±20%	010 = 10 016 = 16 035 = 35	A = N/A B = 0.1%/1,000 hours	G = Gold plated	61 = Surge None 62 = Surge at 25°C after Weibull 63 = Surge -55°C and +85°C after Weibull	10 = Standard ESR

Case Size	Voltage		
	10	16	35
X/7343 – 43	220 µF	100 µF	10 µF – 33 µF

T502 MnO₂ 230°C, 16 – 35 V

Capacitance Range: 6.8 to 10 µF • Temperature Range: -55°C to +230°C

www.kemet.com/T502



T	502	D	685	M	035	A	G	61	10
Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Failure Rate/ Design	Termination Finish	Performance	ESR
T = Tantalum	High Temperature 230°C	B D	First two digits represent significant figures. Third digit specifies number of zeros.	K = ±10% M = ±20%	016 = 16 025 = 25 035 = 35	A = N/A	G = Gold plated	61 = Surge None 62 = Surge at 25°C 63 = Surge -55°C and +85°C	10 = Standard ESR

Case Size	Voltage		
	16	25	35
B/3528 – 21	10 µF		
D/7343 – 31		10 µF	6.8 µF

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