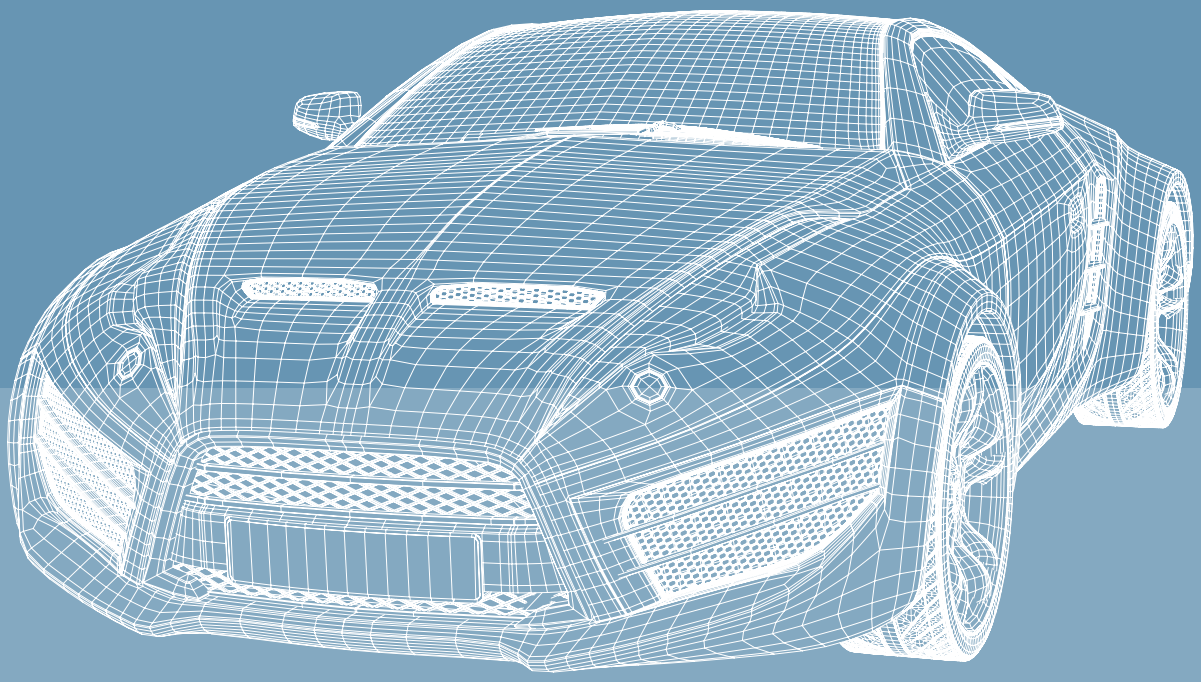
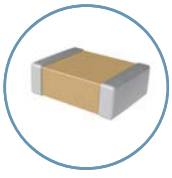
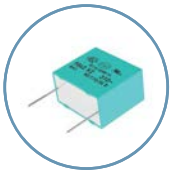
Capacitor Selection Guide

Automotive







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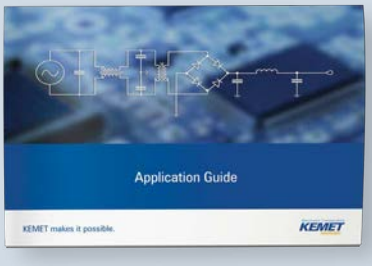

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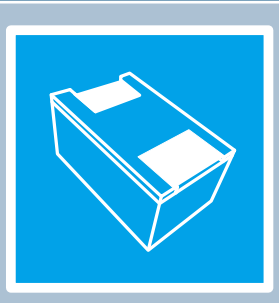

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Aluminum Electrolytic Capacitors

Aluminum Electrolytic Capacitors

Axial Leads

PEG126 High Temperature, High Ripple Current & Vibration Resistant 150°C, 25 – 63 VDC

Capacitance Range: 250 to 4,000 µF • **Temperature Range:** −40°C to +150°C
Lifetime: 2,000 Hours

www.kemet.com/PEG126

PEG126	H	F	368	E	Q	E1
Series	Rated Voltage (VDC)	Size Code	Capacitance Code (µF)	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.	E = Standard (with shrink tape)	Q = −10/+30% M = ±20%	E1 = Bulk

Case Size	Voltage		
	25	40	63
16 x 29	680 µF	470 µF	250 µF
16 x 37	1 mF – 1.5 mF	600 µF	370 µF
20 x 29	2.2 mF	1 mF – 1.5 mF	470 µF
20 x 37	3.3 mF	2.2 mF	680 µF
20 x 46	4 mF	2.7 mF	900 µF

PEG127 High Temperature, High Ripple Current & Small Case Size 150°C, 25 – 63 VDC

Capacitance Range: 33 to 1,300 µF • **Temperature Range:** −40°C to +150°C
Lifetime: 1,600 Hours

www.kemet.com/PEG127

PEG127	H	A	318	0	Q	T1
Series	Rated Voltage (VDC)	Size Code	Capacitance Code (µF)	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
10 x 20	180 µF	110 µF	33 µF
10 x 29	360 µF	220 µF	68 µF
13 x 20	470 µF	270 µF	80 µF
13 x 29	900 µF	520 µF	160 µF
13 x 37	1.3 mF	750 µF	230 µF

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

Aluminum Electrolytic Capacitors

Axial Leads (cont.)

PEG220 High Temperature, Very High Ripple Current (up to 21 A) & Vibration Resistant 150°C, 25 – 63 VDC

Capacitance Range: 250 to 4,700 µF • **Temperature Range:** −40°C to +150°C
Lifetime: 2,000 Hours

www.kemet.com/PEG220

PEG220	H	F	415	0	Q	E1
Series	Rated Voltage (VDC)	Size Code	Capacitance Code (µF)	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% M = ±20%	E1 = Bulk

Case Size	Voltage		
	25	40	63
16 x 26.7	1.5 mF	800 µF	250 µF
16 x 34.7	2.2 mF	1.2 mF	370 µF
18 x 26.7	2 mF	1.2 mF	380 µF
18 x 34.7	3 mF	1.7 mF	560 µF
18 x 38.7	3.4 mF	2 mF	640 µF
20 x 26.7	2.2 mF	1.5 mF	470 µF
20 x 34.7	3.3 mF	2.2 mF	680 µF
20 x 42.7	4.7 mF	2.7 mF	900 µF

PEG225 High Temperature, Extremely High Ripple Current (up to 28 A) 125°C & 150°C, 25 – 63 VDC

Capacitance Range: 470 to 6,300 µF • **Temperature Range:** −40°C to +125°C (at Rated Voltage) & −40°C to +150°C (at Reduced Voltage)
Lifetime: 2,000 Hours (at 150°C & Reduced Voltage)

www.kemet.com/PEG225

PEG225	H	F	422	0	M	E1
Series	Rated Voltage (VDC)	Size Code	Capacitance Code (µF)	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% M = ±20%	E1 = Bulk

Case Size	Voltage		
	25	40	63
16 x 26.7	2.2 mF	1.2 mF	470 µF
16 x 34.7	3 mF	1.8 mF	680 µF
18 x 26.7	2.7 mF	1.6 mF	720 µF
18 x 34.7	4 mF	2.2 mF	1 mF
18 x 38.7	4.6 mF	2.6 mF	1.2 mF
20 x 26.7	3.6 mF	2 mF	900 µF
20 x 34.7	4.8 mF	3 mF	1.4 mF
20 x 42.7	6.3 mF	3.9 mF	1.8 mF

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

Axial Leads (cont.)

PEG226 High Temperature, Extremely High Ripple Current (up to 28 A) 150°C, 25 – 63 VDC

Capacitance Range: 250 to 4,700 µF • **Temperature Range:** −40°C to +150°C
Lifetime: 2,000 Hours

www.kemet.com/PEG226

PEG226	H	F	415	0	M	E1
Series	Rated Voltage (VDC)	Size Code	Capacitance Code (µF)	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% M = ±20%	E1 = Bulk

Case Size	Voltage		
	25	40	63
16 x 26.7	1.5 mF	800 µF	250 µF
16 x 34.7	2.2 mF	1.2 mF	370 µF
18 x 26.7	2 mF	1.2 mF	380 µF
18 x 34.7	3 mF	1.8 mF	560 µF
18 x 38.7	3.4 mF	2 mF	640 µF
20 x 26.7	2.2 mF	1.5 mF	470 µF
20 x 34.7	3.3 mF	2.2 mF	680 µF
20 x 42.7	4.7 mF	2.7 mF	900 µF

Radial Crown

PEH126 High Temperature, High Ripple Current & Vibration Resistant 150°C, 25 – 63 VDC

Capacitance Range: 250 to 4,000 µF • **Temperature Range:** −40°C to +150°C
Lifetime: 2,000 Hours

www.kemet.com/PEH126

PEH126	H	F	368	E	Q	E4
Series	Rated Voltage (VDC)	Size Code	Capacitance Code (µF)	Version	Capacitance Tolerance	Packaging
Radial Crown Aluminum Electrolytic with Soldering Star Termination	H = 25 K = 40 M = 63	See Dimension Table	The last two digits represent significant figures. The first digit indicates the total number digits.	E = Standard (without shrink tape)	Q = −10 +30%	E4 = Tray

Case Size	Voltage		
	25	40	63
16 x 27.5		470 µF	250 µF
16 x 35.5	1 mF – 1.5 mF	600 µF	370 µF
20 x 31	2.2 mF	1 mF – 1.5 mF	470 µF
20 x 39	3.3 mF	2.2 mF	680 µF
20 x 48	4 mF	2.7 mF	900 µF

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

Aluminum Electrolytic Capacitors

Radial Crown (cont.)

PEH220 High Temperature, Very High Ripple Current (up to 21 A) & Vibration Resistant 150°C, 25 – 63 VDC

Capacitance Range: 250 to 4,700 µF • **Temperature Range:** −40°C to +150°C
Lifetime: 2,000 Hours

www.kemet.com/PEH220

PEH220	H	F	415	0	M	E4
Series	Rated Voltage (VDC)	Size Code	Capacitance Code (pF)	Version	Capacitance Tolerance	Packaging
Radial Crown Aluminum Electrolytic with Soldering Star Termination	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 (without shrink tape)	Q = −10 +30% M = ±20%	E4 = Tray

Case Size	Voltage		
	25	40	63
16 x 27.7	1.5 mF	800 µF	250 µF
16 x 35.7	2.2 mF	1.2 mF	370 µF
18 x 27.7	2 mF	1.2 mF	380 µF
18 x 35.7	3 mF	1.7 mF	560 µF
18 x 39.7	3.4 mF	2 mF	640 µF
20 x 27.7	2.2 mF	1.5 mF	470 µF
20 x 35.7	3.3 mF	2.2 mF	680 µF
20 x 43.7	4.7 mF	2.7 mF	900 µF

PEH225 High Temperature, Extremely High Ripple Current (up to 28 A) 125°C & 150°C, 25 – 63 VDC

Capacitance Range: 470 to 6,300 µF • **Temperature Range:** −40°C to +125°C (at Rated Voltage) & −40°C to +150°C (at Reduced Voltage)
Lifetime: 2,000 Hours (at 150°C & Reduced Voltage)

www.kemet.com/PEH225

PEH225	H	F	422	0	M	E4
Series	Rated Voltage (VDC)	Size Code	Capacitance Code (pF)	Version	Capacitance Tolerance	Packaging
Radial Crown Aluminum Electrolytic with Soldering Star Termination	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 (without shrink tape)	Q = −10 +30% M = ±20%	E4 = Tray

Case Size	Voltage		
	25	40	63
16 x 27.7	2.2 mF	1.2 mF	470 µF
16 x 35.7	3 mF	1.8 mF	680 µF
18 x 27.7	2.7 mF	1.6 mF	720 µF
18 x 35.7	4 mF	2.2 mF	1 mF
18 x 39.7	4.6 mF	2.6 mF	1.2 mF
20 x 27.7	3.6 mF	2 mF	900 µF
20 x 35.7	4.8 mF	3 mF	1.4 mF
20 x 43.7	6.3 mF	3.9 mF	1.8 mF

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

Radial Crown (cont.)

PEH226 High Temperature, Extremely High Ripple Current (up to 28 A) 150°C, 25 – 63 VDC

Capacitance Range: 250 to 4,700 µF • **Temperature Range:** −40°C to +150°C
Lifetime: 2,000 Hours

www.kemet.com/PEH226

PEH226	H	F	415	0	M	E4
Series	Rated Voltage (VDC)	Size Code	Capacitance Code (pF)	Version	Capacitance Tolerance	Packaging
Radial Crown Aluminum Electrolytic with Soldering Star Termination	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 (without shrink tape)	Q = −10 +30% M = ±20%	E4 = Tray

Case Size	Voltage		
	25	40	63
16 x 27.7	1.5 mF	800 µF	250 µF
16 x 35.7	2.2 mF	1.2 mF	370 µF
18 x 27.7	2 mF	1.2 mF	380 µF
18 x 35.7	3 mF	1.8 mF	560 µF
18 x 39.7	3.4 mF	2 mF	640 µF
20 x 27.7	2.2 mF	1.5 mF	470 µF
20 x 35.7	3.3 mF	2.2 mF	680 µF
20 x 43.7	4.7 mF	2.7 mF	900 µF

Snap-In

PEH526 Automotive High Temperature & High Vibration, 25 – 80 VDC

Capacitance Range: 820 to 6,800 µF • **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 (µF)	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 = ±20%	3 = 3 Pin

Case Size	Voltage		
	25	40	63
22 x 25	2.7 mF	1.2 mF – 1.8 mF	820 µF
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

80 VDC available on request.

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

Aluminum Electrolytic Capacitors

Radial/Single-Ended

ESK General Purpose, Miniaturized 85°C, 6.3 – 500 VDC

Capacitance Range: 1 to 22,000 µF • **Temperature Range:** −40°C to +85°C & −25°C to +85°C
Lifetime: 2,000 Hours

www.kemet.com/ESK

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

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

Lifetime based on applying rated voltage, temperature, and ripple current.
AEC-Q200 available upon request.

Radial/Single-Ended (cont.)

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

Capacitance Range: 1 to 22,000 µF • **Temperature Range:** −40°C to +85°C & −25°C to +85°C
Lifetime: 2,000 Hours

www.kemet.com/ESK

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

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

Lifetime based on applying rated voltage, temperature, and ripple current.
AEC-Q200 available upon request.

Aluminum Electrolytic Capacitors

Radial/Single-Ended (cont.)

ESH High CV 105°C, 6.3 – 500 VDC

Capacitance Range: 1 to 22,000 µF • **Temperature Range:** −40°C to +105°C & −25°C to +105°C
Lifetime: 2,000 Hours

www.kemet.com/ESH

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

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

Lifetime based on applying rated voltage, temperature, and ripple current.
AEC-Q200 available upon request.

Radial/Single-Ended (cont.)

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

Capacitance Range: 1 to 22,000 µF • **Temperature Range:** −40°C to +105°C & −25°C to +105°C
Lifetime: 2,000 Hours

www.kemet.com/ESH

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

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

Lifetime based on applying rated voltage, temperature, and ripple current.
AEC-Q200 available upon request.

Aluminum Electrolytic Capacitors

Radial/Single-Ended (cont.)

EST Long Life & Low Impedance 105°C, 6.3 – 100 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 (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
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	1 mF							
10 x 12.5	1 mF							
10 x 15	1.5 mF	1 mF	680 µF	470 µF		220 µF	270 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	220 µF – 2.2 mF	1.5 mF – 4.7 mF	680 µF – 820 µF	470 µF		220 µF	120 µF
10 x 30					680 µF	470 µF	270 µF	
13 x 20	3.3 mF	270 µF – 2.7 mF		1 mF	680 µF	470 µF	270 µF	150 µF
13 x 25	3.9 mF	330 µF – 3.3 mF	2.2 mF	150 µF – 1.5 mF	820 µF – 1 mF	560 µF	330 µF	220 µF
13 x 30	4.7 mF	390 µF – 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	4.7 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.
AEC-Q200 available upon request.

Radial/Single-Ended (cont.)

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

Capacitance Range: 1 to 4,700 µF • **Temperature Range:** −40°C to +125°C & −25° 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	330 µF	220 µF	100 µF	100 µF		4.7 µF	4.7 µF	3.3 µF	2.2 µF	1 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	470 µF		330 µF	220 µF		100 µF	10 µF		4.7 µF	3.3 µF	2.2 µF – 3.3 µF	2.2 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.
AEC-Q200 available upon request.

Aluminum Electrolytic Capacitors

Surface Mount

EDK General Purpose, Low Profile 85°C, 4 – 100 VDC

Capacitance Range: 1 to 1,500 µF • **Temperature Range:** −40°C to +85°C
Lifetime: 2,000 Hours

www.kemet.com/EDK

EDK	336	M	004		A	9B	AA
Series	Capacitance Code (pF)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Surface Mount Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = ±20%	004 = 4 6R3 = 6.3 010 = 10 016 = 16 025 = 25	035 = 35 050 = 50 063 = 63 100 = 100	A = Standard S = AEC-Q200	See Dimension Table	AA = Tape & Reel

Case Size	Voltage								
	4	6.3	10	16	25	35	50	63	100
4 x 5.4	22 µF – 47 µF	22 µF – 47 µF	15 µF – 33 µF	4.7 µF – 22 µF	1 µF – 10 µF	2.2 µF – 10 µF	1 µF – 4.7 µF	1 µF	
5 x 5.4	100 µF	33 µF – 100 µF	33 µF – 47 µF	22 µF – 47 µF	10 µF – 33 µF	10 µF – 22 µF	4.7 µF – 10 µF		
6.3 x 5.4	220 µF – 330 µF	100 µF – 220 µF	100 µF	33 µF – 100 µF	22 µF – 47 µF	22 µF – 47 µF	10 µF – 22 µF	4.7 µF – 10 µF	2.2 µF
6.3 x 5.5		33 µF							
6.3 x 7.7	470 µF	220 µF – 330 µF	220 µF	100 µF – 220 µF	47 µF – 100 µF	47 µF – 100 µF	22 µF – 47 µF	22 µF	3.3 µF – 10 µF
8 x 6.2		220 µF – 330 µF	220 µF		47 µF – 100 µF	33 µF – 47 µF	22 µF		
8 x 10.2		470 µF – 1 mF	330 µF – 470 µF	220 µF – 470 µF	100 µF – 330 µF	100 µF – 220 µF	33 µF – 100 µF	10 µF – 47 µF	3.3 µF – 22 µF
10 x 10.2		680 µF – 1.5 mF	470 µF – 1 mF	330 µF – 680 µF	220 µF – 470 µF	100 µF – 330 µF	47 µF – 220 µF	100 µF	22 µF – 33 µF

Lifetime based on applying rated voltage, temperature, and ripple current.
AEC-Q200 available upon request.

Surface Mount (cont.)

EDH Low Profile 105°C, 6.3 – 450 VDC

Capacitance Range: 1 to 2,200 µF • **Temperature Range:** −40°C to +105°C & −25°C to +105°C
Lifetime: 2,000 Hours

www.kemet.com/EDH

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

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

Lifetime based on applying rated voltage, temperature, and ripple current.
AEC-Q200 available upon request.

Aluminum Electrolytic Capacitors

Surface Mount (cont.)

EEV Low Profile & Ultra Low Impedance 105°C, 6.3 – 50 VDC

Capacitance Range: 4.7 to 1,500 µF • **Temperature Range:** −55°C to +105°C
Lifetime: 2,000 Hours

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 = ±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	3.3 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	330 µF	220 µF	220 µF			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	470 µF – 1 mF	680 µF	330 µF – 470 µF	220 µF – 330 µF	220 µF

EXV Low Profile, Ultra Low Impedance & Longer Life, 105°C, 6.3 – 50 VDC

Capacitance Range: 1 to 1,000 µF • **Temperature Range:** −55°C to +105°C
Lifetime: 5,000 Hours

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 = ±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 – 22 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 – 100 µF	33 µF – 47 µF	33 µF	10 µF
6.3 x 7.7	150 µF – 220 µF	150 µF	100 µF – 220 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 – 470 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, High Temperature & High Ripple Current 125°C, 10 – 50 VDC

Capacitance Range: 22 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 (pF)	Tolerance	Rated Voltage (VDC)	Electrical Parameters	Size Code	Packaging
Surface Mount Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = ±20%	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.

Aluminum Polymer Capacitors

Surface Mount (V-Chip)

A765 Miniature, Ultra Low Impedance & High Ripple 105°C, 2.5 – 25 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	Suface 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 = ±20%	2.5 = 0E 4 = 0G 6.3 = 0J 10 = 1A 16 = 1C 25 = 1E	LA = Tape & Reel	Last 3 digits represent significant figures for ESR values. (mΩ)

Case Size	Voltage					
	2.5	4	6.3	10	16	25
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
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 & High Ripple 105°C, 35 – 100 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	Suface Mount Conductive Polymer Solid Capacitor 105°C 2,000 hours 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 = ±20%	35 = 1V 50 = 1H 63 = 1J 80 = 1K 100 = 2A	LA = Tape & Reel	Last 3 digits represent significant figures for ESR values. (mΩ)

Case Size	Voltage				
	35	50	63	80	100
6.3 x 5.7	10 µF – 22 µF				
8 x 9.7	33 µF – 82 µF	18 µF – 56 µF	22 µF – 33 µF	22 µF	
8 x 12			47 µF	33 µF	10 µF
10 x 12.6	100 µF – 220 µF	82 µF – 100 µF	68 µF – 100 µF	47 µF	22 µF

Lifetime based on applying rated voltage, temperature, and ripple current.
AEC-Q200 not available.

Aluminum Polymer Capacitors

Radial/Single-Ended

A750 Low Impedance & High Ripple 105°C, 2.5 – 25 VDC

Capacitance Range: 47 to 1,500 µF • **Temperature Range:** −55°C to +105°C
Lifetime: 2,000 Hours

www.kemet.com/A750

A	750	EK	567	M	0E	AA	E020
Capacitor Class	Series	Size Code	Capacitance Code (pF)	Tolerance	Rated Voltage (VDC)	Packaging	ESR
A = Aluminum	Single-Ended Conductive Polymer Solid Capacitor 105°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 = ±20%	2.5 = 0E 4 = 0G 6.3 = 0J 10 = 1A 16 = 1C 25 = 1E	See Ordering Options Table	Last 3 digits represent significant figures for ESR values.(mΩ)

Case Size	Voltage					
	2.5	4	6.3	10	16	25
5 x 7			220 µF – 330 µF			
5 x 9			390 µF			
6.3 x 8	560 µF	560 µF	470 µF – 560 µF	220 µF – 330 µF	100 µF – 220 µF	47 µF
8 x 8	1 mF		680 µF – 1 mF	470 µF – 560 µF	330 µF	100 µF
8 x 12			1.2 mF – 1.5 mF	680 µF – 820 µF	470 µF – 560 µF	220 µF – 330 µF
10 x 12				1 mF	820 µF – 1 mF	470 µF – 560 µF

A755 Long Life, Low Impedance & High Ripple 105°C, 2.5 – 25 VDC

Capacitance Range: 47 to 1,500 µF • **Temperature Range:** −55°C to +105°C
Lifetime: 5,000 Hours

www.kemet.com/A755

A	755	KS	687	M	0E	AA	E014
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 = ±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. (mΩ)

Case Size	Voltage						
	2.5	4	6.3	10	16	20	25
5 x 11			220 µF				
8 x 12	680 µF – 820 µF	560 µF – 1.2 mF	680 µF – 1 mF	270 µF – 820 µF	270 µF	100 µF – 150 µF	47 µF – 220 µF
10 x 12	1.5 mF		1.5 mF	1 mF – 1.5 mF	470 µF – 1 mF		270 µF – 330 µF

Lifetime based on applying rated voltage, temperature, and ripple current.
AEC-Q200 not available.

Radial/Single-Ended (cont.)

A758 Long Life, Miniature, Low Impedance & 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 = ±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. (mΩ)

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 & High Ripple 125°C, 6.3 – 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 = ±20%	6.3 = 0J 10 = 1A 16 = 1C 20 = 1D 25 = 1E 35 = 1V 50 = 1H 63 = 1J 80 = 1K 100 = 2A 160 = 2C 250 = 2E	See Ordering Options Table	Last 3 digits represent significant figures for ESR values.(mΩ)

Case Size	Voltage					
	6.3	10	16	25	35	50
5 x 11					10 µF – 33 µF	10 µF – 22 µF
6.3 x 8	220 µF – 470 µF	220 µF – 330 µF	100 µF			
8 x 12	680 µF – 1 mF	470 µF – 820 µF	220 µF – 330 µF	100 µF – 220 µF	100 µF	39 µF
10 x 12	1.5 mF – 2.2 mF	1 mF – 1.5 mF	470 µF – 560 µF	220 µF – 470 µF	150 µF	68 µF – 100 µF
10 x 18						440 µF
10 x 20						440 µF
13 x 20						680 µF

Lifetime based on applying rated voltage, temperature, and ripple current.
AEC-Q200 not available.

Aluminum Polymer Capacitors

Radial/Single-Ended (cont.)

A759 High Temperature, High Voltage & High Ripple 125°C, 35 – 250 VDC (cont.)

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 = ±20%	6.3 = 0J 10 = 1A 16 = 1C 20 = 1D 25 = 1E 35 = 1V 50 = 1H 63 = 1J 80 = 1K 100 = 2A 160 = 2C 250 = 2E	See Ordering Options Table	Last 3 digits represent significant figures for ESR values.(mΩ)

Case Size	Voltage				
	63	80	100	160	250
6.3 x 11			4.7 µF		
8 x 8		10 µF – 18 µF			2.2 µF
8 x 12	47 µF	33 µF – 47 µF	15 µF	10 µF	3.3 µF – 4.7 µF
10 x 12	68 µF – 82 µF	56 µF	22 µF	15 µF – 18 µF	6.8 µF – 8.2 µF
10 x 16	150 µF				
10 x 20	220 µF				
13 x 20	330 µF				
18 x 31					82 µF

Lifetime based on applying rated voltage, temperature, and ripple current.
AEC-Q200 not available.

Ceramic Capacitors

General Automotive

C0G Dielectric, 10 – 250 VDC

Capacitance Range: 0.50 pF to 0.47 µF • **Temperature Range:** −55°C to +125°C

www.kemet.com/C0G-Auto

C	1206	C	104	J	3	G	A	C	AUTO
Ceramic	Case Size (L" x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance[1]	Rated Voltage (VDC)	Dielectric	Failure Rate/ Design	Termination Finish[2]	Packaging/Grade (C-Spec)
	0402 0603 0805 1206 1210 1812 2220	C = Standard	Two significant digits + number of zeros Use 9 for 1.0 – 9.9 pF Use 8 for 0.5 – .99 pF ex. 2.2 pF = 229 ex. 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 4 = 16 3 = 25 5 = 50 1 = 100 2 = 200 A = 250	G = C0G	A = N/A	C = 100% Matte Sn	See "Packaging C-Spec Ordering Options Table"

Case Size	Voltage						
	10	16	25	50	100	200	250
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 µF	0.5 pF – 0.015 µF	0.5 pF – 0.015 µF	0.5 pF – 6.8 nF	0.5 pF – 4.7 nF	0.5 pF – 2.2 nF	0.5 pF – 2.2 nF
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 – 8.2 nF	0.5 pF – 8.2 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 – 0.022 µF	1 pF – 0.022 µF
1210	1 pF – 0.22 µF	1 pF – 0.22 µF	1 pF – 0.22 µF	1 pF – 0.15 µF	1 pF – 0.1 µF	1 pF – 0.047 µF	1 pF – 0.047 µF
1812				470 pF – 0.22 µF	470 pF – 0.15 µF	470 pF – 0.1 µF	470 pF – 0.1 µF
2220				6.8 nF – 0.47 µF	6.8 nF – 0.33 µF	6.8 nF – 0.22 µF	

X7R Dielectric, 6.3 – 250 VDC

Capacitance Range: 10 pF to 47 µF • **Temperature Range:** −55°C to +125°C

www.kemet.com/X7R-Auto

C	0805	C	225	M	4	R	A	C	AUTO
Ceramic	Case Size (L" x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Dielectric	Failure Rate/Design	Termination Finish[1]	Packaging/Grade (C-Spec)
	0402 0603 0805 1206 1210 1808 1812 1825 2220	C = Standard	Two significant digits and number of zeros.	J = ±5% K = ±10% M = ±20%	9 = 6.3 8 = 10 4 = 16 3 = 25 5 = 50 1 = 100 2 = 200 A = 250	R = X7R	A = N/A	C = 100% Matte Sn	See "Packaging C-Spec Ordering Options Table"

Case Size	Voltage							
	6.3	10	16	25	50	100	200	250
0402	10 pF – 0.1 µF	10 pF – 0.1 µF	10 pF – 0.1 µF	10 pF – 0.047 µF	10 pF – 0.022 µF			
0603	10 pF – 1 µF	10 pF – 1 µF	10 pF – 1 µF	10 pF – 0.22 µF	10 pF – 0.15 µF	10 pF – 0.047 µF	10 pF – 0.01 µF	4.7 nF – 0.01 µF
0805	10 pF – 10 µF	10 pF – 10 µF	10 pF – 4.7 µF	10 pF – 1 µF	10 pF – 0.68 µF	10 pF – 0.22 µF	10 pF – 0.068 µF	180 pF – 0.068 µF
1206	10 pF – 10 µF	10 pF – 10 µF	10 pF – 10 µF	10 pF – 10 µF	10 pF – 2.2 µF	10 pF – 1 µF	10 pF – 0.22 µF	1 nF – 0.22 µF
1210	10 pF – 22 µF	10 pF – 22 µF	10 pF – 10 µF	10 pF – 10 µF	10 pF – 4.7 µF	10 pF – 2.2 µF	10 pF – 0.47 µF	2.2 nF – 0.47 µF
1808					330 pF – 0.18 µF	330 pF – 0.056 µF	330 pF – 2.7 nF	
1812				470 pF – 10 µF	470 pF – 4.7 µF	470 pF – 3.3 µF	470 pF – 0.47 µF	6.8 nF – 0.47 µF
1825					0.022 µF – 1 µF	0.022 µF – 1 µF	0.022 µF – 1 µF	0.022 µF – 1 µF
2220				6.8 nF – 22 µF	6.8 nF – 10 µF	6.8 nF – 1 µF	0.082 µF – 1 µF	0.082 µF – 1 µF

General Automotive (cont.)

Capacitor Array, C0G Dielectric, 10 – 200 VDC

Capacitance Range: 10 to 470 pF • **Temperature Range:** −55°C to +125°C

www.kemet.com/Array-C0G-Auto

CA	06	4	X	104	K	4	G	A	C	TU
Ceramic Array	Case Size (L" x W")[1]	Number of Capacitors	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Dielectric	Failure Rate/ Design	Termination Finish[2]	Packaging/ Grade (C-Spec)
	06 = 0612	4 = 4	X = Flexible Termination	Two significant digits + number of zeros	J = ±5% K = ±10% M = ±20%	8 = 10 4 = 16 3 = 25 5 = 50 1 = 100 2 = 200	G = C0G	A = N/A	C = 100% Matte Sn L = SnPb (5% minimum Pb content)	See "Packaging C-Spec Ordering Options Table"

Case Size	Voltage					
	10	16	25	50	100	200
0612	10 pF – 470 pF	10 pF – 470 pF	10 pF – 470 pF	10 pF – 470 pF	10 pF – 180 pF	10 pF – 82 pF

Capacitor Array, X7R Dielectric, 10 – 200 VDC

Capacitance Range: 330 pF to 0.10 µF • **Temperature Range:** −55°C to +125°C

www.kemet.com/Array-X7R-Auto

CA	06	4	X	104	K	4	R	A	C	TU
Ceramic Array	Case Size (L" x W")[1]	Number of Capacitors	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Dielectric	Failure Rate/ Design	Termination Finish[2]	Packaging/ Grade (C-Spec)
	06 = 0612	4 = 4	X = Flexible Termination	Two significant digits + number of zeros	J = ±5% K = ±10% M = ±20%	8 = 10 4 = 16 3 = 25 5 = 50 1 = 100 2 = 200	R = X7R	A = N/A	C = 100% Matte Sn L = SnPb (5% minimum Pb content)	See "Packaging C-Spec Ordering Options Table"

Case Size	Voltage					
	10	16	25	50	100	200
0612	180 pF – 0.1 µF	180 pF – 0.1 µF	180 pF – 0.056 µF	180 pF – 0.047 µF	180 pF – 0.022 µF	330 pF – 0.01 µF

General Automotive (cont.)

KPS, X7R Dielectric, 10 – 250 VDC

Capacitance Range: 0.1 to 47 µF • **Temperature Range:** −55°C to +125°C

www.kemet.com/KPS-X7R-Auto

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 = ±10% M = ±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"

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

Aximax, 400, Axial, Conformally Coated, C0G Dielectric, 25 – 250 VDC

Capacitance Range: 1.0 pF to 0.10 µF • **Temperature Range:** −55°C to +125°C

www.kemet.com/LeadedMLCCs

C	410	C	473	J	3	G	5	T	A	9170
Ceramic	Style/ Size	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance[1]	Rated Voltage (VDC)	Dielectric	Design	Lead Finish	Failure Rate	Packaging/Grade (C-Spec)
	410 420 430	C = Standard	First two digits represent significant figures. Third digit specifies number of zeros.	B = ±0.1 pF C = ±0.25 pF D = ±0.5 pF F = ±1% G = ±2% J = ±5% K = ±10%	3 = 25 5 = 50 1 = 100 2 = 200 A = 250	G = C0G	5 = Multilayer	T = 100% Matte Sn	A = N/A	Automotive Grade 9170 = Bulk Auto Grade 9170 7200 = T & R 12" Auto Grade 9170 7293 = Ammo Pack Auto Grade

Case Size	Voltage				
	25	50	100	200	250
C410 (2.41 x 4.32)	1 pF – 0.047 µF	1 pF – 0.022 µF	1 pF – 0.015 µF	1 pF – 8.2 nF	1 pF – 8.2 nF
C420 (2.54 x 5.08)	390 pF – 0.056 µF	390 pF – 0.056 µF	390 pF – 0.033 µF	390 pF – 0.015 µF	390 pF – 0.015 µF
C430 (3.81 x 6.1)	0.018 µF – 0.1 µF	0.018 µF – 0.082 µF	0.018 µF – 0.047 µF	0.018 µF – 0.022 µF	0.018 µF – 0.022 µF

General Automotive (cont.)

Aximax, 400, Axial, Conformally Coated, X7R Dielectric, 25 – 250 VDC

Capacitance Range: 10 pF to 4.7 µF • **Temperature Range:** −55°C to +125°C

www.kemet.com/LeadedMLCCs

C	410	C	105	K	3	R	5	T	A	9170
Ceramic	Style/ Size	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance[1]	Voltage	Dielectric	Design	Lead Finish	Failure Rate	Packaging/Grade (C-Spec)
	410 420 430	C = Standard	First two digits represent significant figures. Third digit specifies number of zeros.	J = ±5% K = ±10% M = ±20%	3 = 25 5 = 50 1 = 100 2 = 200 A = 250	R = X7R	5 = Multilayer	T = 100% Matte Sn	A = N/A	Automotive Grade 9170 = Bulk Auto Grade 9170 7200 = T & R 12" Auto Grade 9170 7293 = Ammo Pack Auto Grade

Case Size	Voltage				
	25	50	100	200	250
C410 (2.41 x 4.32)	10 pF – 1 µF	10 pF – 0.68 µF	10 pF – 0.22 µF	10 pF – 0.056 µF	10 pF – 0.022 µF
C420 (2.54 x 5.08)	0.027 µF – 1 µF	0.027 µF – 1 µF	0.027 µF – 0.27 µF	0.027 µF – 0.1 µF	0.027 µF – 0.1 µF
C430 (3.81 x 6.1)	0.12 µF – 4.7 µF	0.12 µF – 2.2 µF	0.12 µF – 0.47 µF	0.12 µF – 0.15 µF	

Goldmax, 300, Radial, Conformally Coated, C0G Dielectric, 25 – 250 VDC

Capacitance Range: 1.0 pF to 0.22 µF • **Temperature Range:** −55°C to +125°C

www.kemet.com/LeadedMLCCs

C	320			C	153	J	5	G	5	T	A	9170
Ceramic	Style/Size			Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance[1]	Voltage	Dielectric	Design	Lead Finish[2]	Failure Rate	Packaging/Grade (C-Spec)
	315 316 317 318 320 321	322 323 324 325 326 327	328 330 331 333 335 336	C = Standard	First two digits represent significant figures. Third digit specifies number of zeros.	B = ±0.1 pF C = ±0.25 pF D = ±0.5 pF F = ±1% G = ±2% J = ±5% K = ±10%	3 = 25 5 = 50 1 = 100 2 = 200 A = 250	G = C0G	5 = Multilayer	T = 100% Matte Sn	A = N/A	Automotive Grade See "Packaging C-Spec Ordering Options Table"

Case Size	Voltage				
	25	50	100	200	250
C31x	1 pF – 0.047 µF	1 pF – 0.022 µF	1 pF – 0.015 µF	1 pF – 8.2 nF	1 pF – 8.2 nF
C32x	1 pF – 0.18 µF	1 pF – 0.15 µF	1 pF – 0.1 µF	1 pF – 0.047 µF	1 pF – 0.047 µF
C33x	1 pF – 9.1 nF	1 pF – 0.22 µF	1 pF – 0.15 µF	1 pF – 0.1 µF	1 pF – 0.1 µF

General Automotive (cont.)

Goldmax, 300, Radial, Conformally Coated, X7R Dielectric, 25 – 250 VDC

Capacitance Range: 100 pF to 10 µF • **Temperature Range:** −55°C to +125°C

www.kemet.com/LeadedMLCCs

C	320			C	106	K	3	R	5	T	A	9170
Ceramic	Style/Size			Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance[1]	Voltage	Dielectric	Design	Lead Finish[2]	Failure Rate	Packaging/Grade (C-Spec)
	315 316 317 318 320 321	322 323 324 325 326 327	328 330 331 333 335 336	C = Standard	First two digits represent significant figures. Third digit specifies number of zeros.	J = ±5% K = ±10% M = ±20%	3 = 25 5 = 50 1 = 100 2 = 200 A = 250	R = X7R	5 = Multilayer	T = 100% Matte Sn	A = N/A	Automotive Grade See "Packaging C-Spec Ordering Options Table"

Case Size	Voltage				
	25	50	100	200	250
C31x	100 pF – 1 µF	100 pF – 0.68 µF	100 pF – 0.22 µF	100 pF – 0.056 µF	100 pF – 0.033 µF
C32x	100 pF – 10 µF	100 pF – 4.7 µF	100 pF – 1 µF	100 pF – 0.22 µF	100 pF – 0.22 µF
C33x	1 pF – 10 µF	10 pF – 4.7 µF	100 pF – 1.2 µF	100 pF – 0.47 µF	100 pF – 0.47 µF

Board Flex Mitigation

Flexible Termination System (FT-CAP), C0G Dielectric, 10 – 250 VDC

Capacitance Range: 0.5 pF to 0.47 µF • **Temperature Range:** −55°C to +125°C

www.kemet.com/FTCAP-C0G-Auto

C	1206	X	563	J	3	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 1812 1825 2220 2225	X = Flexible Termination	Two significant digits and 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 = ±1% G = ±2% J = ±5% K = ±10% M = ±20%	8 = 10 4 = 16 3 = 25 5 = 50 1 = 100 2 = 200 A = 250	G = C0G	A = N/A	C = 100% Matte Sn L = SnPb (5% Pb minimum)	See "Packaging C-Spec Ordering Options Table"

Case Size	Voltage						
	10	16	25	50	100	200	250
0603	0.5 pF – 0.015 µF	0.5 pF – 0.015 µF	0.5 pF – 0.015 µF	0.5 pF – 6.8 nF	0.5 pF – 4.7 nF	0.5 pF – 2.2 nF	0.5 pF – 2.2 nF
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 – 8.2 nF	0.5 pF – 8.2 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 – 0.022 µF	1 pF – 0.022 µF
1210	1 pF – 0.22 µF	1 pF – 0.22 µF	1 pF – 0.22 µF	1 pF – 0.15 µF	1 pF – 0.1 µF	1 pF – 0.047 µF	1 pF – 0.047 µF
1812				470 pF – 0.22 µF	470 pF – 0.15 µF	470 pF – 0.1 µF	470 pF – 0.1 µF
1825				3.9 nF – 0.027 µF	3.9 nF – 0.027 µF	3.9 nF – 0.012 µF	3.9 nF – 0.012 µF
2220				6.8 nF – 0.47 µF	6.8 nF – 0.33 µF	6.8 nF – 0.18 µF	
2225				4.7 nF – 0.033 µF	4.7 nF – 0.027 µF	4.7 nF – 0.015 µF	4.7 nF – 0.015 µF

Board Flex Mitigation (cont.)

Flexible Termination System (FT-CAP) X7R Dielectric, 6.3 – 250 VDC

Capacitance Range: 180 pF to 22 µF • **Temperature Range:** −55°C to +125°C

www.kemet.com/FTCAP-X7R

C	1206	X	106	K	4	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	X = Flexible termination	Two significant digits + number of zeros	J = ±5% K = ±10% M = ±20%	9 = 6.3 8 = 10 4 = 16 3 = 25 5 = 50 1 = 100 2 = 200 A = 250	R = X7R	A = N/A	C = 100% Matte Sn L = SnPb (5% Pb minimum)	See "Packaging C-Spec Ordering Options Table"

Case Size	Voltage							
	6.3	10	16	25	50	100	200	250
0603	180 pF – 1 µF	180 pF – 1 µF	180 pF – 1 µF	180 pF – 0.22 µF	180 pF – 0.15 µF	180 pF – 0.047 µF	180 pF – 0.01 µF	4.7 nF – 0.01 µF
0805	180 pF – 10 µF	180 pF – 10 µF	180 pF – 4.7 µF	180 pF – 1 µF	180 pF – 0.68 µF	180 pF – 0.22 µF	180 pF – 0.068 µF	180 pF – 0.068 µF
1206	1 nF – 10 µF	1 nF – 10 µF	1 nF – 10 µF	1 nF – 10 µF	1 nF – 2.2 µF	1 nF – 1 µF	1 nF – 0.22 µF	1 nF – 0.22 µF
1210	2.2 nF – 22 µF	2.2 nF – 22 µF	2.2 nF – 10 µF	2.2 nF – 10 µF	2.2 nF – 4.7 µF	2.2 nF – 2.2 µF	2.2 nF – 0.47 µF	2.2 nF – 0.47 µF
1808					4.7 nF – 0.18 µF	4.7 nF – 0.056 µF	4.7 nF – 0.018 µF	
1812				6.8 nF – 10 µF	6.8 nF – 4.7 µF	6.8 nF – 3.3 µF	6.8 nF – 0.47 µF	6.8 nF – 0.47 µF
1825					0.022 µF – 2.2 µF	0.022 µF – 1 µF	0.022 µF – 1 µF	0.022 µF – 1 µF
2220				0.082 µF – 22 µF	0.082 µF – 10 µF	0.082 µF – 1 µF	0.082 µF – 1 µF	0.082 µF – 1 µF
2225					0.1 µF – 2.2 µF	0.1 µF – 1.2 µF	0.1 µF – 1.2 µF	0.1 µF – 1.2 µF

Flexible Termination System (FT-CAP), Ultra-Stable X8R Dielectric, 10 – 100 VDC

Capacitance Range: 0.5 pF to 0.22 µF • **Temperature Range:** −55°C to +150°C

www.kemet.com/FTCAP-X8R-Auto

C	1206	X	104	J	3	H	A	C	AUTO
Ceramic	Case Size (L" x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance	Reated 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.	B = ±0.10 pF C = ±0.25 pF D = ±0.5 pF F = ±1% G = ±2% J = ±5% K = ±10% M = ±20%	8 = 10 4 = 16 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"

Case Size	Voltage				
	10	16	25	50	100
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
0805	0.5 pF – 0.033 µF	0.5 pF – 0.033 µF	0.5 pF – 0.033 µF	0.5 pF – 0.022 µF	0.5 pF – 0.015 µF
1206	1 pF – 0.1 µF	1 pF – 0.1 µF	1 pF – 0.1 µF	1 pF – 0.082 µF	1 pF – 0.056 µF
1210	1 pF – 0.18 µF	1 pF – 0.18 µF	1 pF – 0.18 µF	1 pF – 0.15 µF	1 pF – 0.1 µF
1812				470 pF – 0.22 µF	470 pF – 0.15 µF

Board Flex Mitigation (cont.)

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

Capacitance Range: 1 pF to 0.039 µF • **Temperature Range:** −55°C to +125°C **www.kemet.com/FTCAP-C0G-HV-Auto**

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

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

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

Capacitance Range: 10 pF to 0.33 µF • **Temperature Range:** −55°C to +125°C **www.kemet.com/FTCAP-X7R-HV-Auto**

C	1210	X	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	X = Flexible Termination	Two significant digits + number of zeros.	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	R = X7R	A = N/A	C = 100% Matte Sn L = SnPb (5% Pb minimum)	See "Packaging C-Spec Ordering Options Table"

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

Board Flex Mitigation (cont.)

Floating Electrode Design (FE-CAP), X7R Dielectric, 6.3 – 250 VDC

Capacitance Range: 150 pF to 0.22 µF • **Temperature Range:** −55°C to +125°C

www.kemet.com/FECAP

C	0805	S	104	K	5	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)
	0402 0603 0805 1206 1210 1812	S = Floating Electrode	Two significant digits + number of zeros	J = ±5% K = ±10% M = ±20%	9 = 6.3 8 = 10 4 = 16 3 = 25 5 = 50 1 = 100 2 = 200 A = 250	R = X7R	A = N/A	C = 100% Matte Sn L = SnPb (5% Pb minimum)	See "Packaging C-Spec Ordering Options Table"

Case Size	Voltage							
	6.3	10	16	25	50	100	200	250
0402	150 pF – 1 nF	150 pF – 1 nF	150 pF – 1 nF	150 pF – 1 nF	150 pF – 1 nF			
0603	180 pF – 0.022 µF	180 pF – 0.022 µF	180 pF – 0.022 µF	180 pF – 0.022 µF	180 pF – 0.022 µF	180 pF – 8.2 nF	180 pF – 4.7 nF	
0805	180 pF – 0.1 µF	180 pF – 0.1 µF	180 pF – 0.1 µF	180 pF – 0.1 µF	180 pF – 0.1 µF	180 pF – 0.022 µF	180 pF – 0.012 µF	180 pF – 0.012 µF
1206	1 nF – 0.12 µF	1 nF – 0.12 µF	1 nF – 0.12 µF	1 nF – 0.12 µF	1 nF – 0.12 µF	1 nF – 0.056 µF	1 nF – 0.027 µF	1 nF – 0.027 µF
1210	2.2 nF – 0.22 µF	2.2 nF – 0.22 µF	2.2 nF – 0.22 µF	2.2 nF – 0.22 µF	2.2 nF – 0.22 µF	2.2 nF – 0.1 µF	2.2 nF – 0.056 µF	2.2 nF – 0.056 µF
1812				6.8 nF – 0.22 µF	6.8 nF – 0.22 µF	6.8 nF – 0.15 µF	6.8 nF – 0.082 µF	6.8 nF – 0.082 µF

Open Mode Design (FO-CAP), X7R Dielectric, 16 – 200 VDC

Capacitance Range: 1,000 pF to 6.8 µF • **Temperature Range:** −55°C to +125°C

www.kemet.com/FOCAP

C	1210	J	685	K	3	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)
	0805 1206 1210 1812	F = Open Mode J = Open Mode with Flexible Termination	Two significant digits + number of zeros	K = ±10% M = ±20%	4 = 16 3 = 25 5 = 50 1 = 100 2 = 200	R = X7R	A = N/A	C = 100% Matte Sn L = SnPb (5% Pb minimum)	See "Packaging C-Spec Ordering Options Table"

Case Size	Voltage				
	16	25	50	100	200
0805	1 nF – 0.68 µF	1 nF – 0.47 µF	1 nF – 0.22 µF	1 nF – 0.068 µF	1 nF – 0.015 µF
1206	0.018 µF – 4.7 µF	0.018 µF – 2.2 µF	0.018 µF – 1 µF	0.018 µF – 0.33 µF	0.018 µF – 0.1 µF
1210	0.068 µF – 6.8 µF	0.068 µF – 6.8 µF	0.068 µF – 2.2 µF	0.068 µF – 1 µF	0.068 µF – 0.22 µF
1812		0.047 µF – 4.7 µF	0.047 µF – 4.7 µF	0.047 µF – 1 µF	0.047 µF – 0.39 µF

High Temperature (150°C)

High Temperature 150°C, X8L Dielectric, 6.3 – 50 VDC

Capacitance Range: 0.012 to 10 µF • **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 = ±5% K = ±10% M = ±20%	9 = 6.3 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"

Case Size	Voltage				
	6.3	10	16	25	50
0402	0.056 µF – 0.1 µF	0.012 µF – 0.1 µF	0.027 µF – 0.047 µF	0.012 µF – 0.022 µF	
0603		0.047 µF – 0.22 µF	0.18 µF – 0.22 µF	0.047 µF – 0.15 µF	0.047 µF
0805		0.15 µF – 1 µF	0.82 µF – 1 µF	0.15 µF – 0.68 µF	0.15 µF – 0.22 µF
1206		0.47 µF – 4.7 µF	2.7 µF – 4.7 µF	0.47 µF – 2.2 µF	0.47 µF
1210		0.39 µF – 10 µF	5.6 µF – 10 µF	0.39 µF – 4.7 µF	0.39 µF – 1 µF

High Temperature 150°C, Ultra-Stable X8R Dielectric, 10 – 100 VDC

Capacitance Range: 0.5 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	Failure Rate/Design	Termination Finish[2]	Packaging/ Grade (C-Spec)
	0402 0603 0805 1206 1210 1812	C = Standard	Two significant digits + 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%	8 = 10 4 = 16 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"

Case Size	Voltage				
	10	16	25	50	100
0402	10 pF – 1.5 nF	10 pF – 1.5 nF	10 pF – 1.5 nF	10 pF – 1.5 nF	100 pF – 1 nF
0603	10 pF – 0.01 µF	10 pF – 0.01 µF	10 pF – 0.01 µF	10 pF – 6.8 nF	10 pF – 4.7 nF
0805	10 pF – 0.033 µF	10 pF – 0.033 µF	10 pF – 0.033 µF	10 pF – 0.022 µF	10 pF – 0.015 µF
1206	10 pF – 0.1 µF	10 pF – 0.1 µF	10 pF – 0.1 µF	10 pF – 0.082 µF	10 pF – 0.056 µF
1210	10 pF – 0.18 µF	10 pF – 0.18 µF	10 pF – 0.18 µF	10 pF – 0.15 µF	10 pF – 0.1 µF
1812				470 pF – 0.22 µF	470 pF – 0.15 µF

High Temperature (150°C) (cont.)

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

Capacitance Range: 0.47 to 47 µF • **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 1812 2220	C = Standard	Two significant digits + number of zeros.	K = ±10% M = ±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"

Case Size	Voltage			
	10	16	25	50
1210-1	0.47 µF – 4.7 µF	0.47 µF – 4.7 µF	0.47 µF – 4.7 µF	0.47 µF – 1 µF
1210-2	1 µF – 10 µF	1 µF – 10 µF	1 µF – 10 µF	1 µF – 2.2 µF
1812-2		4.7 µF	4.7 µF	4.7 µF
2220-1	2.2 µF – 22 µF	2.2 µF – 10 µF	2.2 µF – 10 µF	
2220-2	4.7 µF – 47 µF	4.7 µF – 22 µF	4.7 µF – 22 µF	

Aximax, 400, Axial, Conformally Coated, X8L Dielectric, 25 – 50 VDC

Capacitance Range: 0.1 to 2.2 µF • **Temperature Range:** −55°C to +150°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 = ±5% K = ±10% M = ±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 (2.41 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

High Temperature (150°C) (cont.)

Aximax, 400, Axial, Conformally Coated, X8R Dielectric, 50 – 200 VDC

Capacitance Range: 10 pF to 0.082 µF • **Temperature Range:** −55°C to +150°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	B = ± 0.1 pF C = ± 0.25 pF D = ± 0.5 pF F = ±1% G = ±2% J = ±5% K = ±10% M = ±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 (2.41 x 4.32)	1 pF – 0.022 µF	1 pF – 0.015 µF	1 pF – 1 nF
C430 (3.81 x 6.1)	100 pF – 0.082 µF	100 pF – 0.047 µF	100 pF – 2.7 nF

High Voltage (> 500 VDC)

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

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

www.kemet.com/C0G-HV-Auto

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

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

High Voltage (> 500 VDC) (cont.)

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

Capacitance Range: 10 pF to 0.56 µF • **Temperature Range:** −55°C to +125°C

www.kemet.com/X7R-HV-Auto

C	1210	C	154	K	C	R	A	C	AUTO
Ceramic	Case Size (L" x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Dielectric	Failure Rate/ Design	Termination Finish[1]	Packaging/Grade (C-Spec)
	0603 0805 1206 1210 1808 1812 1825 2220 2225	C = Standard	Two significant digits and number of zeros.	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	R = X7R	A = N/A	C = 100% Matte Sn	See "Packaging C-Spec Ordering Options Table"

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

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

Capacitance Range: 0.047 to 1.0 µF • **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 = ±10% M = ±20%	C = 500 B = 630	R = X7R	1 = KPS single chip stack 2 = KPS double chip stack	C = 100% Matte Sn	See "Packaging C-Spec Ordering Options Table"

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

High Voltage (> 500 VDC) (cont.)

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

Capacitance Range: 1,000 pF to 0.56 µF • **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 = ±5% K = ±10% M = ±20%	C = 500 B = 630 D = 1,000	R = X7R	A = N/A	C = 100% Matte Sn L = SnPb (5% PB minimum)	See "Packaging C-Spec Ordering Options Table"

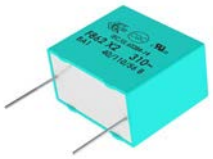
Case Size	Voltage		
	500	630	1,000
0603	1 nF – 3.9 nF	1 nF – 1.5 nF	1 nF
0805	2.2 nF – 0.022 µF	2.2 nF – 0.012 µF	2.2 nF – 4.7 nF
1206	0.012 µF – 0.068 µF	0.012 µF – 0.033 µF	0.012 µF – 0.022 µF
1210	0.022 µF – 0.15 µF	0.022 µF – 0.1 µF	0.022 µF – 0.068 µF
1808	0.018 µF – 0.15 µF	0.018 µF – 0.1 µF	0.018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

Film Capacitors

EMI Suppression Applications

F862 Metallized Polypropylene for Harsh Environmental Conditions, Radial, 15.0 – 27.5 mm Lead Spacing, 310 VAC

Capacitance Range: 0.047 to 4.7 µF • **Temperature Range:** −40°C to +110°C **www.kemet.com/F862**



F	862	B	C	104	M	310	Z
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Voltage (VAC)	Packaging
F = Film	X2, Metallized Polypropylene	B = 15 D = 22.5 F = 27.5	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	K = ±10% M = ±20%	310	See Ordering Options Table

Case Size	Voltage
	310 VAC
15 - 18 x 13.5 x 7.5	100 nF – 150 nF
15 - 18 x 14.5 x 8.5	180 nF – 220 nF
15 - 18 x 16 x 10	330 nF – 390 nF
15 - 18 x 19 x 11	470 nF
15 - 18 x 20 x 12	560 nF
22.5 - 26 x 14.5 x 6	150 nF
22.5 - 26 x 16 x 7	220 nF
22.5 - 26 x 17 x 8.5	330 nF – 390 nF
22.5 - 26 x 18.5 x 10	470 nF – 560 nF
22.5 - 26 x 20 x 11	680 nF – 820 nF
22.5 - 26 x 22 x 13	1 µF – 1.2 µF
27.5 - 31.5 x 20 x 11	1 µF
27.5 - 31.5 x 25 x 13	1.5 µF
27.5 - 31.5 x 28 x 14	2.2 µF
27.5 - 31.5 x 29 x 19	3.3 µF
27.5 - 31.5 x 37 x 22	4.7 µF

EMI Suppression Applications (cont.)

R41 Metallized Polypropylene, Y2 Class, Radial, 10.0 – 37.55 mm Lead Spacing, 300 VAC

Capacitance Range: 0.001 to 1 µF • **Temperature Range:** −40°C to +110°C

www.kemet.com/R41

R41	3	I	2330	00	M1	M
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
Y2, Metallized Polypropylene	3 = 300	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 number of zeros to be added.	See Ordering Options Table	00 M1	K = ±10% M = ±20%

Case Size	Voltage
	300 VAC
10 - 13 x 9 x 4	1 nF – 3.3 nF
10 - 13 x 11 x 5	4.7 nF
10 - 13 x 12 x 6	6.8 nF – 10 nF
15 - 18 x 11 x 5	3.3 nF – 15 nF
15 - 18 x 12 x 6	22 nF
15 - 18 x 13.5 x 7.5	33 nF
15 - 18 x 14.5 x 8.5	47 nF
15 - 18 x 19 x 11	68 nF
22.5 - 26.5 x 15 x 6	47 nF – 68 nF
22.5 - 26.5 x 16 x 7	68 nF
22.5 - 26.5 x 17 x 8.5	100 nF
22.5 - 26.5 x 18.5 x 10	150 nF
22.5 - 26.5 x 22 x 13	220 nF
27.5 - 32 x 22 x 13	220 nF
27.5 - 32 x 28 x 14	330 nF
27.5 - 32 x 33 x 18	470 nF – 680 nF
37.5 - 41.5 x 24 x 13	470 nF
37.5 - 41.5 x 28.5 x 16	680 nF
37.5 - 41.5 x 40 x 20	1 µF

AEC-Q200 available (up to 22.5 mm lead spacing).

EMI Suppression Applications (cont.)

R47 Metallized Polypropylene, X1 Class, 10.0 – 37.5 mm Lead Spacing, 440 VAC

Capacitance Range: 0.0047 to 2.2 µF • **Temperature Range:** −40°C to +110°C

www.kemet.com/R47-X1

R47	4	I	2100	00	A1	M
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
X1, Metallized Polypropylene	4 = 440	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 number of zeros to be added.	See Ordering Options Table	A1 A2 A3	K = ±10% M = ±20%

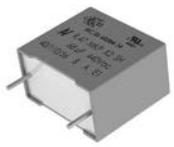
Case Size	Voltage
	440 VAC
10 - 13 x 9 x 4	4.7 nF
10 - 13 x 11 x 5	6.8 nF
10 - 13 x 12 x 6	8.2 nF – 10 nF
15 - 18 x 11 x 5	10 nF – 18 nF
15 - 18 x 12 x 6	22 nF – 33 nF
15 - 18 x 12 x 13	68 nF
15 - 18 x 12.5 x 9	47 nF
15 - 18 x 13.5 x 7.5	39 nF – 47 nF
15 - 18 x 14.5 x 8.5	56 nF
15 - 18 x 16 x 10	68 nF – 82 nF
15 - 18 x 17.5 x 6	47 nF
15 - 18 x 18.5 x 7.5	68 nF
15 - 18 x 19 x 11	100 nF
22.5 - 26.5 x 13.5 x 6.5	47 nF
22.5 - 26.5 x 15 x 6	47 nF – 68 nF
22.5 - 26.5 x 16 x 7	100 nF
22.5 - 26.5 x 17 x 8.5	120 nF
22.5 - 26.5 x 18.5 x 10	150 nF – 180 nF
22.5 - 26.5 x 20 x 11	220 nF
22.5 - 26.5 x 22 x 13	270 nF – 330 nF
27.5 - 32 x 17 x 9	150 nF – 270 nF
27.5 - 32 x 20 x 11	330 nF – 390 nF
27.5 - 32 x 22 x 13	470 nF – 560 nF
27.5 - 32 x 28 x 14	680 nF
27.5 - 32 x 33 x 18	820 nF – 1.2 µF
27.5 - 32 x 37 x 22	1.5 µF
37.5 - 41.5 x 22 x 11	470 nF – 560 nF
37.5 - 41.5 x 24 x 13	680 nF
37.5 - 41.5 x 28.5 x 16	820 nF – 1 µF
37.5 - 41.5 x 32 x 19	1.2 µF – 1.5 µF
37.5 - 41.5 x 40 x 20	1.8 µF – 2.2 µF

AEC-Q200 available (up to 22.5 mm lead spacing).

EMI Suppression Applications (cont.)

R47 Metallized Polypropylene, X2 Class, Radial, 10.0 – 27.5 mm Lead Spacing, 440 – 520 VAC

Capacitance Range: 0.0047 to 2.2 µF • **Temperature Range:** −40°C to +110°C **www.kemet.com/R47-X2-440**



R47	4	F	1470	00	01	M
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
X2, Metallized Polypropylene	4 = 440	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 number of zeros to be added.	See Ordering Options Table	01 02 03	K = ±10% M = ±20%

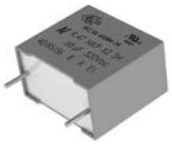
Case Size	Voltage	
	440 VAC	520 VAC
10 - 13 x 9 x 4	4.7 nF	4.7 nF
10 - 13 x 11 x 5	6.8 nF	6.8 nF
10 - 13 x 12 x 6	8.2 nF – 10 nF	8.2 nF – 10 nF
15 - 18 x 11 x 5	10 nF – 18 nF	10 nF – 18 nF
15 - 18 x 12 x 6	22 nF – 33 nF	22 nF – 33 nF
15 - 18 x 12 x 13	68 nF	68 nF
15 - 18 x 12.5 x 9	47 nF	47 nF
15 - 18 x 13.5 x 7.5	39 nF – 47 nF	39 nF – 47 nF
15 - 18 x 14.5 x 8.5	56 nF	56 nF
15 - 18 x 16 x 10	68 nF – 82 nF	68 nF – 82 nF
15 - 18 x 17.5 x 6	47 nF	47 nF
15 - 18 x 18.5 x 7.5	68 nF	68 nF
15 - 18 x 19 x 11	100 nF	100 nF
22.5 - 26.5 x 15 x 6	47 nF – 68 nF	47 nF – 68 nF
22.5 - 26.5 x 16 x 7	100 nF	100 nF
22.5 - 26.5 x 17 x 8.5	120 nF	120 nF
22.5 - 26.5 x 18.5 x 10	150 nF – 180 nF	150 nF – 180 nF
22.5 - 26.5 x 20 x 11	220 nF	220 nF
22.5 - 26.5 x 22 x 13	270 nF – 330 nF	270 nF – 330 nF
27.5 - 32 x 17 x 9	150 nF – 270 nF	150 nF – 270 nF
27.5 - 32 x 20 x 11	330 nF – 390 nF	330 nF – 390 nF
27.5 - 32 x 22 x 13	470 nF – 560 nF	470 nF – 560 nF

AEC-Q200 available (up to 22.5 mm lead spacing).

EMI Suppression Applications (cont.)

R47 Metallized Polypropylene, X2 Class, Radial, 10.0 – 37.5 mm Lead Spacing, 520 VAC, 85°C

Capacitance Range: 0.0047 to 2.2 µF • **Temperature Range:** −40°C to +85°C **www.kemet.com/R47-X2-520**



R47	5	I	2100	00	01	M
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Lead and Packaging Code	Internal Use	Capacitance Tolerance
X2, Metallized Polypropylene	5 = 520	F = 10.0 I = 15.0 N = 22.5 R = 27.5 W = 37.5	Digits two – four indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added.	See Ordering Options Table	01 02 03	K = ±10% M = ±20%

Case Size	Voltage
	520 VAC
10 - 13 x 9 x 4	4.7 nF
10 - 13 x 11 x 5	6.8 nF
10 - 13 x 12 x 6	8.2 nF – 10 nF
15 - 18 x 11 x 5	10 nF – 18 nF
15 - 18 x 12 x 6	22 nF – 33 nF
15 - 18 x 12 x 13	68 nF
15 - 18 x 12.5 x 9	47 nF
15 - 18 x 13.5 x 7.5	39 nF – 47 nF
15 - 18 x 14.5 x 8.5	56 nF
15 - 18 x 16 x 10	68 nF – 82 nF
15 - 18 x 17.5 x 6	47 nF
15 - 18 x 18.5 x 7.5	68 nF
15 - 18 x 19 x 11	100 nF
22.5 - 26.5 x 13.5 x 6.5	47 nF
22.5 - 26.5 x 15 x 6	47 nF – 68 nF
22.5 - 26.5 x 16 x 7	100 nF
22.5 - 26.5 x 17 x 8.5	120 nF
22.5 - 26.5 x 18.5 x 10	150 nF – 180 nF
22.5 - 26.5 x 20 x 11	220 nF
22.5 - 26.5 x 22 x 13	270 nF – 330 nF
27.5 - 32 x 17 x 9	150 nF – 270 nF
27.5 - 32 x 20 x 11	330 nF – 390 nF
27.5 - 32 x 22 x 13	470 nF – 560 nF
27.5 - 32 x 28 x 14	680 nF
27.5 - 32 x 33 x 18	820 nF – 1.2 µF
27.5 - 32 x 37 x 22	1.5 µF
37.5 - 41.5 x 22 x 11	470 nF – 560 nF
37.5 - 41.5 x 24 x 13	680 nF
37.5 - 41.5 x 28.5 x 16	820 nF – 1 µF
37.5 - 41.5 x 32 x 19	1.2 µF – 1.5 µF
37.5 - 41.5 x 40 x 20	1.8 µF – 2.2 µF

AEC-Q200 available (up to 22.5 mm lead spacing).

EMI Suppression Applications (cont.)

PME295 Metallized Impregnated Paper, Y1 Class, Radial, 15.0 mm Lead Spacing, 440 VAC

Capacitance Range: 470 to 4,700 pF • **Temperature Range:** −40°C to +115°C **www.kemet.com/PME295**

Legacy Part Number System

PME295	R	B	3470	M	R30
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Capacitance Tolerance	Packaging
Y1, Metallized Paper	R = 440	B = 15.0	The last three digits represent significant figures. The first digit specifies the total number of digits.	M = ±20%	See Ordering Options Table

New KEMET Part Number System

P	295	B	E	471	M	440	A
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VAC)	Packaging
P = Paper	Y1, Metallized Paper	B = 15.0	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	M = ±20%	440 = 440	See Ordering Options Table

Case Size	Voltage
	440 VAC
7.5 - 18 x 12.5 x 5.5	0.5 nF – 1 nF
7.5 - 18 x 12.5 x 6.5	1.2 nF – 2.2 nF
7.5 - 18 x 14.5 x 7.5	2.5 nF – 3.3 nF
7.5 - 18 x 16 x 8.5	3.9 nF – 4.7 nF
15 - 18 x 12.5 x 5.5	0.5 nF – 1 nF
15 - 18 x 12.5 x 6.5	1.2 nF – 2.2 nF
15 - 18 x 14.5 x 7.5	2.5 nF – 3.3 nF
15 - 18 x 16 x 8.5	3.9 nF – 4.7 nF

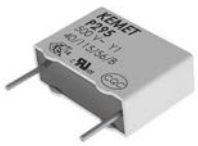
AEC-Q200 available upon request.

EMI Suppression Applications (cont.)

P295 Metallized Impregnated Paper, Y1 Class, Radial, 15.0 mm Lead Spacing, 440 VAC

Capacitance Range: 470 to 4,700 pF • **Temperature Range:** −40°C to +115°C

www.kemet.com/P295



P	295	B	E	471	M	500	A
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VAC)	Packaging
P = Paper	Y1, Metallized Paper	B = 15.0	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	M = ±20%	500 = 500	See Ordering Options Table

Case Size	Voltage
	440 VAC
7.5 - 18 x 12.5 x 5.5	0.5 nF – 1 nF
7.5 - 18 x 12.5 x 6.5	1.2 nF – 2.2 nF
7.5 - 18 x 14.5 x 7.5	2.5 nF – 3.3 nF
7.5 - 18 x 16 x 8.5	3.9 nF – 4.7 nF
15 - 18 x 12.5 x 5.5	0.5 nF – 1 nF
15 - 18 x 12.5 x 6.5	1.2 nF – 2.2 nF
15 - 18 x 14.5 x 7.5	2.5 nF – 3.3 nF
15 - 18 x 16 x 8.5	3.9 nF – 4.7 nF

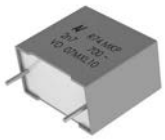
AEC-Q200 available upon request.

AC Applications

R74 125°C Single Metallized Polypropylene, Radial, 10.0 – 22.5 mm Lead Spacing, 1,600 – 2,000 VDC/500 – 700 VAC

Capacitance Range: 470 pF to 0.018 µF • **Temperature Range:** −55°C to +125°C

www.kemet.com/R74-125



R74	5	F	1100	AA	H0	J
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
Metallized Polypropylene	5 = 500 7 = 700	I = 15 N = 22.5	The last three digits represent significant figures. The first digit specifies the total number of zeros to be added.	See Ordering Options Table	H0 H1 H3 (Hx = 125°C)	J = ±5% K = ±10%

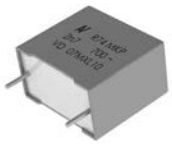
Case Size	Voltage (VDC/VAC)	
	1,600/500	2,000/700
15 - 18 x 10 x 4	2.7 nF – 3.9 nF	0.7 nF – 2.5 nF
15 - 18 x 11 x 5	4.7 nF – 5.6 nF	2.7 nF – 3.3 nF
15 - 18 x 12 x 6	6.8 nF – 10 nF	3.6 nF – 5.6 nF
15 - 18 x 12 x 13	15 nF – 22 nF	10 nF – 12 nF
15 - 18 x 12.5 x 9		8.2 nF
15 - 18 x 13.5 x 7.5	12 nF – 15 nF	6.2 nF – 8.2 nF
15 - 18 x 14.5 x 8.5	18 nF	10 nF
15 - 18 x 16 x 10	22 nF – 27 nF	12 nF – 15 nF
15 - 18 x 19 x 11	33 nF	18 nF
22.5 - 26.5 x 15 x 6	18 nF – 22 nF	6.2 nF – 15 nF
22.5 - 26.5 x 16 x 7	27 nF – 33 nF	18 nF
22.5 - 26.5 x 17 x 8.5	39 nF	22 nF – 27 nF
22.5 - 26.5 x 18.5 x 10	47 nF – 56 nF	33 nF – 39 nF
22.5 - 26.5 x 20 x 11	68 nF	47 nF
22.5 - 26.5 x 22 x 13	82 nF – 100 nF	56 nF – 68 nF

AC Applications (cont.)

R74 Single Metallized Polypropylene, Radial, 10.0 – 37.5 mm Lead Spacing, 630 – 2,200 VDC/250 – 900 VAC

Capacitance Range: 470 pF to 3.3 µF • **Temperature Range:** −55°C to +105°C

www.kemet.com/R74



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

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

AEC-Q200 available upon request (up to 22.5 mm lead spacing).

AC Applications (cont.)

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

Capacitance Range: 0.001 to 4.7 µF • **Temperature Range:** −55°C to +125°C

www.kemet.com/LDE

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

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

Electronic Components
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DC Applications

C4E Brick Type for DC Link Applications, 450 VAC

Capacitance Range: 500 µF • **Temperature Range:** −40°C to +110°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.*

R82 Metallized Polyester, 5.0 mm Lead Spacing, 50 – 400 VDC/30 – 200 VAC

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 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 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 13 x 7.2	3.3 µF – 4.7 µF						

DC Applications (cont.)

C4AQ Radial, 2 or 4 Leads, 500 – 1,500 VDC

Capacitance Range: 1 to 210 µF • **Temperature Range:** −40°C to +105°C

www.kemet.com/C4AQ

C4	A	Q	U	B	W	5270	1	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	Q = DC Link Automotive Grade	L = 500 C = 650 I = 800 Q = 1,100 U = 1,300 S = 1,500	B = Box, plastic case E = Extended 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 B - Z = Special	1 = 0.8 2 = 1.0 3 = 1.2	Digit 6 = B 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 O = 35 x 50 x 42 M = 30 x 45 x 57.5 N = 35 x 50 x 57.5 Digit 6 = E A = 45 x 56 x 57.5 N = 45 x 65 x 57.5	J = 5% K = 10%

Case Size	Voltage					
	500 VDC	650 VDC	800 VDC	1,100 VDC	1,300 VDC	1,500 VDC
27.5 - 31.5 x 20 x 11	5.6 µF	3.3 µF	2.7 µF	1.5 µF	1 µF	1 µF
27.5 - 31.5 x 25 x 13	10 µF	5.6 µF	4 µF	2.7 µF	1.8 µF	1.5 µF
27.5 - 31.5 x 28x 14	12.5 µF	7 µF	5 µF	3.3 µF	2.2 µF	2 µF
27.5 - 31.5 x 29 x 19	15 µF	10 µF	8 µF	5 µF	3.3 µF	3 µF
27.5 - 31.5 x 37 x 22	25 µF	15 µF	12.5 µF	8 µF	5 µF	4.5 µF
37.5 - 42 x 37 x 28	50 µF	30 µF	20 µF	14 µF	10 µF	8 µF
37.5 - 42 x 40 x 20	40 µF	20 µF	15 µF	12 µF	8 µF	6 µF
37.5 - 42 x 45 x 30	70 µF	40 µF	30 µF	20 µF	12 µF	12 µF
37.5 - 42 x 50 x 35	90 µF	50 µF	40 µF	25 µF	18 µF	15 µF
52.5 - 57.5 x 45 x 30	100 µF	55 µF	45 µF	30 µF	20 µF	17 µF
52.5 - 57.5 x 50 x 35	130 µF	75 µF	55 µF – 60 µF	40 µF	25 µF – 27 µF	22 µF
52.5 - 57.5 x 56 x 45	170 µF	110 µF	85 µF	55 µF	38 µF	32 µF
52.5 - 57.5 x 65 x 45	210 µF	130 µF	100 µF	65 µF	45 µF	40 µF

DC Applications (cont.)

RSB Metallized Polyester, 125°C, 5.0 mm (Stacked), 50 – 630 VDC/30 – 220 VAC

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

www.kemet.com/RSB

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

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

R66 Single Metallized Polypropylene, Radial, 7.5 mm Lead Spacing, 50 – 630 VDC/30 – 220 VAC

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

www.kemet.com/R66

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

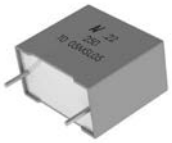
Case Size	Voltage (VDC/VAC)					
	50/30	63/40	100/63	250/160	400/200	630/220
7.5 - 10 x 8 x 3	680 nF – 1 µF	330 nF – 470 nF	68 nF – 220 nF	22 nF – 68 nF	6.8 nF – 22 nF	
7.5 - 10 x 9 x 4	1.5 µF	680 nF – 1 µF	330 nF – 680 nF	100 nF – 150 nF	33 nF – 47 nF	
7.5 - 10 x 10.5 x 5	2.2 µF	1.5 µF	1 µF	220 nF	68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

DC Applications (cont.)

R60 Metallized Polyester, Radial, 10.0 – 37.5 mm Lead Spacing, 50 – 1,000 VDC/40 – 250 VAC

Capacitance Range: 0.001 to 220 µF • **Temperature Range:** −55°C to +105°C

www.kemet.com/R60



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

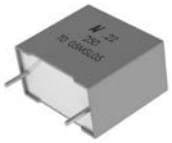
Case Size	Voltage (VDC/VAC)							
	50/30	63/40	100/63	160/90	250/160	400/200	630/220	1,000/250
10 - 13 x 9 x 4	1.5 µF – 2.2 µF	1 µF	330 nF – 680 nF	220 nF – 330 nF	100 nF – 150 nF	33 nF – 68 nF	4.7 nF – 22 nF	1 nF – 3.3 nF
10 - 13 x 11 x 5	3.3 µF	1.5 µF – 2.2 µF	1 µF – 1.5 µF	470 nF	220 nF – 330 nF	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
15 - 18 x 11 x 5		680 nF – 1.5 µF	330 nF – 1 µF	330 nF – 680 nF	100 nF – 330 nF	22 nF – 220 nF	33 nF – 68 nF	10 nF – 15 nF
15 - 18 x 12 x 6		2.2 µF			470 nF	220 nF	68 nF – 100 nF	22 nF
15 - 18 x 12 x 13		4.7 µF	3.3 µF	2.2 µF	1 µF	470 nF – 680 nF		47 nF
15 - 18 x 12.5 x 9		3.3 µF	2.2 µF	1.5 µF	680 nF	330 nF – 470 nF	100 nF	33 nF
15 - 18 x 13.5 x 7.5		3.3 µF	1.5 µF	1 µF	680 nF	330 nF – 470 nF	100 nF – 150 nF	33 nF
15 - 18 x 14.5 x 8.5		4.7 µF	2.2 µF	1.5 µF	1 µF	470 nF	150 nF – 220 nF	
15 - 18 x 16 x 10		6.8 µF	3.3 µF	2.2 µF	1.5 µF	680 nF	220 nF – 330 nF	47 nF
15 - 18 x 19 x 11			4.7 µF	3.3 µF		680 nF – 1 µF		68 nF
22.5 - 26.5 x 15 x 6		3.3 µF	1.5 µF – 2.2 µF	1.5 µF	470 nF – 1 µF	220 nF – 680 nF	100 nF – 220 nF	33 nF – 47 nF
22.5 - 26.5 x 16 x 7		4.7 µF – 6.8 µF	3.3 µF	2.2 µF	1.5 µF	680 nF	220 nF – 330 nF	68 nF
22.5 - 26.5 x 17 x 8.5		10 µF	4.7 µF	3.3 µF		1 µF	330 nF	100 nF
22.5 - 26.5 x 18.5 x 10			6.8 µF		2.2 µF	1 µF – 1.5 µF	330 nF – 470 nF	
22.5 - 26.5 x 20 x 11		15 µF		4.7 µF	3.3 µF	1.5 µF	470 nF – 680 nF	
22.5 - 26.5 x 22 x 13			10 µF	6.8 µF		2.2 µF	680 nF	150 nF

AEC-Q200 available upon request (up to 22.5 mm lead spacing).

DC Applications (cont.)

R60 Metallized Polyester, Radial, 10.0 – 37.5 mm Lead Spacing, 50 – 1,000 VDC/40 – 250 VAC (cont.)

Capacitance Range: 0.001 to 220 µF • **Temperature Range:** −55°C to +105°C **www.kemet.com/R60**



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

Case Size	Voltage (VDC/VAC)						
	63/40	100/63	160/90	250/160	400/200	630/220	1,000/250
27.5 - 32 x 12 x 13	4.7 µF – 6.8 µF	4.7 µF – 6.8 µF	3.3 µF – 6.8 µF	1.5 µF – 3.3 µF	1 µF	330 nF – 470 nF	
27.5 - 32 x 15 x 24	15 µF – 22 µF	15 µF – 22 µF	10 µF – 22 µF	4.7 µF – 10 µF	2.2 µF – 3.3 µF	680 nF – 1.5 µF	330 nF – 470 nF
27.5 - 32 x 17 x 9	10 µF	4.7 µF – 10 µF	3.3 µF – 10 µF	1.5 µF – 4.7 µF	680 nF – 1.5 µF	330 nF – 470 nF	150 nF – 220 nF
27.5 - 32 x 20 x 11	15 µF – 22 µF	15 µF	15 µF	6.8 µF	2.2 µF	680 nF – 1 µF	330 nF
27.5 - 32 x 22 x 13	22 µF	22 µF	22 µF	10 µF	3.3 µF		470 nF
27.5 - 32 x 28 x 14		33 µF	33 µF	15 µF	4.7 µF		680 nF
27.5 - 32 x 33 x 18	33 µF		47 µF	22 µF	6.8 µF	1.5 µF – 2.2 µF	1 µF
27.5 - 32 x 37 x 22	47 µF – 68 µF	47 µF – 68 µF	68 µF	33 µF	10 µF	3.3 µF – 4.7 µF	1.5 µF
37.5 - 41.5 x 15 x 24	22 µF – 33 µF	22 µF – 33 µF	15 µF – 33 µF	10 µF – 15 µF	3.3 µF – 6.8 µF	1.5 µF – 2.2 µF	680 nF – 1 µF
37.5 - 41.5 x 19 x 24	47 µF	47 µF	47 µF			3.3 µF	
37.5 - 41.5 x 22 x 11	22 µF	15 µF – 22 µF	10 µF – 22 µF	4.7 µF – 10 µF	3.3 µF – 4.7 µF	1 µF – 1.5 µF	470 nF – 680 nF
37.5 - 41.5 x 24 x 13	33 µF	33 µF	33 µF	15 µF	6.8 µF	2.2 µF	
37.5 - 41.5 x 28.5 x 16	47 µF	47 µF	47 µF	22 µF	10 µF	3.3 µF	1 µF
37.5 - 41.5 x 32 x 19	68 µF	68 µF	68 µF	33 µF		4.7 µF	1.5 µF
37.5 - 41.5 x 40 x 20	100 µF	100 µF	100 µF	47 µF		6.8 µF	2.2 µF
37.5 - 41.5 x 44 x 24	100 µF	100 µF		68 µF	15 µF – 22 µF	10 µF	3.3 µF
37.5 - 41.5 x 45 x 30		150 µF	150 µF		33 µF		4.7 µF

DC Applications (cont.)

A50 Metallized Polyester, Axial, 50 – 1,000 VDC/30 – 250 VAC

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

www.kemet.com/A50

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

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

DC Applications (cont.)

A50 Metallized Polyester, Axial, 50 – 1,000 VDC/30 – 250 VAC (cont.)

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

www.kemet.com/A50

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

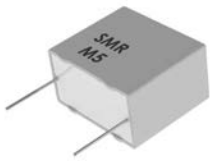
Case Size	Voltage (VDC/VAC)					
	50/30	100/63	250/160	400/200	630/220	1,000/250
12 x 20.5	10 µF					
12 x 33		6.8 µF			470 nF	
12.5 x 28						100 nF
12.5 x 33				1.5 µF		
13 x 33			3.3 µF			
13.5 x 33						150 nF
14.5 x 33		10 µF			680 nF	
15 x 33				2.2 µF		
15.5 x 33			4.7 µF			
16 x 33						220 nF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

AEC-Q200 available upon request.

DC Applications (cont.)

SMR Polyphenylene Sulfide, 150°C, 5.0 – 27.5 mm Lead Spacing, 50 – 400 VDC/30 – 200 VAC

Capacitance Range: 0.001 to 22 µF • **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 = ±2.5% J = ±5% K = ±10% M = ±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 = ±2.5% J = ±5% K = ±10% M = ±20%	050 = 50 063 = 63 100 = 100 250 = 250 400 = 400	See Ordering Options Table

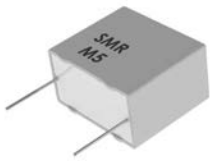
Case Size	Voltage (VDC/VAC)				
	50/30	63/40	100/63	250/160	400/200
5 - 7.2 x 6.5 x 2.5	1 nF – 120 nF	1 nF – 68 nF	1 nF – 39 nF	1 nF – 12 nF	1 nF – 3.9 nF
5 - 7.2 x 8 x 3.5	150 nF – 270 nF	82 nF – 150 nF	47 nF	15 nF – 27 nF	4.7 nF – 12 nF
5 - 7.2 x 9 x 4.5	330 nF – 390 nF	180 nF – 220 nF	56 nF – 100 nF	33 nF – 47 nF	15 nF – 18 nF
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 µF – 1.2 µF	560 nF – 680 nF	220 nF – 330 nF	100 nF – 120 nF	47 nF – 56 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 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 - 10.5 x 12 x 6	1 µF – 1.2 µF	680 nF – 820 nF	330 nF – 470 nF	120 nF – 150 nF	56 nF – 68 nF
7.5 - 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
7.5 - 13 x 10.5 x 4.5	820 nF	470 nF – 560 nF	270 nF	82 nF – 100 nF	39 nF
7.5 - 13 x 11 x 5	1 µF – 1.2 µF	680 nF	330 nF – 390 nF	120 nF	47 nF – 56 nF
7.5 - 13 x 12 x 6	1.5 µF – 1.8 µF	820 nF – 1 µF	470 nF – 560 nF	150 nF – 180 nF	68 nF – 82 nF
7.5 - 18 x 10.5 x 5.5		680 nF – 820 nF	270 nF – 470 nF	100 nF – 150 nF	47 nF – 68 nF
7.5 - 18 x 12.5 x 5.5		1 µF	560 nF	180 nF	82 nF
7.5 - 18 x 12.5 x 6.5	2.2 µF	1.2 µF – 1.5 µF	680 nF	220 nF	100 nF
7.5 - 18 x 14.5 x 7.5	2.7 µF – 3.3 µF	1.8 µF	820 nF – 1 µF	270 nF – 330 nF	120 nF – 150 nF
7.5 - 18 x 15 x 8	3.9 µF	2.2 µF	1.2 µF	390 nF	180 nF
7.5 - 18 x 16 x 8.5		2.7 µF	1.5 µF	470 nF	220 nF
7.5 - 18 x 17.5 x 9.5	4.7 µF – 5.6 µF	3.3 µF	1.8 µF	560 nF	270 nF

AEC-Q200 available upon request.

DC Applications (cont.)

SMR Polyphenylene Sulfide, 150°C, 5.0 – 27.5 mm Lead Spacing, 50 – 400 VDC/30 – 200 VAC (cont.)

Capacitance Range: 0.001 to 22 µF • **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 = ±2.5% J = ±5% K = ±10% M = ±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 = ±2.5% J = ±5% K = ±10% M = ±20%	050 = 50 063 = 63 100 = 100 250 = 250 400 = 400	See Ordering Options Table

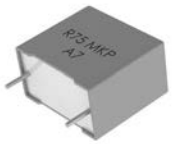
Case Size	Voltage (VDC/VAC)				
	50/30	63/40	100/63	250/160	400/200
10 - 13 x 9 x 4	2.7 nF – 680 nF	2.7 nF – 390 nF	2.7 nF – 220 nF	2.7 nF – 68 nF	2.7 nF – 33 nF
10 - 13 x 10.5 x 4.5	820 nF	470 nF – 560 nF	270 nF	82 nF – 100 nF	39 nF
10 - 13 x 11 x 5	1 µF – 1.2 µF	680 nF	330 nF – 390 nF	120 nF	47 nF – 56 nF
10 - 13 x 12 x 6	1.5 µF – 1.8 µF	820 nF – 1 µF	470 nF – 560 nF	150 nF – 180 nF	68 nF – 82 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 µF	560 nF	180 nF	82 nF
15 - 18 x 12.5 x 6.5	2.2 µF	1.2 µF – 1.5 µF	680 nF	220 nF	100 nF
15 - 18 x 14.5 x 7.5	2.7 µF – 3.3 µF	1.8 µF	820 nF – 1 µF	270 nF – 330 nF	120 nF – 150 nF
15 - 18 x 15 x 8	3.9 µF	2.2 µF	1.2 µF	390 nF	180 nF
15 - 18 x 16 x 8.5		2.7 µF	1.5 µF	470 nF	220 nF
15 - 18 x 17.5 x 9.5	4.7 µF – 5.6 µF	3.3 µF	1.8 µF	560 nF	270 nF
22.5 - 26 x 14.5 x 6.5		2.7 µF	1.5 µF	470 nF	150 nF – 220 nF
22.5 - 26 x 16 x 8		3.9 µF	2.2 µF		330 nF
22.5 - 26 x 16.5 x 7		3.3 µF	1.8 µF	560 nF – 680 nF	270 nF
22.5 - 26 x 18.5 x 9	6.8 µF – 8.2 µF	4.7 µF – 5.6 µF	2.7 µF	820 nF – 1 µF	390 nF – 470 nF
22.5 - 26 x 19 x 10.5	10 µF	6.8 µF	3.3 µF – 3.9 µF	1.2 µF	560 nF
22.5 - 26 x 21.5 x 11	12 µF	8.2 µF	4.7 µF	1.5 µF	680 nF
27.5 - 31.5 x 20.5 x 10.5	15 µF			1.5 µF – 1.8 µF	470 nF – 680 nF
27.5 - 31.5 x 22.5 x 11.5	18 µF	10 µF	5.6 µF	2.2 µF	820 nF – 1 µF
27.5 - 31.5 x 24.5 x 14.5	22 µF	12 µF – 15 µF	6.8 µF – 8.2 µF	2.7 µF	1.2 µF
27.5 - 31.5 x 28 x 17.5		18 µF – 22 µF	10 µF – 12 µF	3.3 µF – 3.9 µF	1.5 µF – 1.8 µF

AEC-Q200 available upon request (up to 22.5 mm lead spacing).

DC Applications (cont.)

R75 Single Metallized Polypropylene, Radial, 7.5 – 37.5 mm Lead Spacing, 160 – 2,000 VDC/70 – 220 VAC

Capacitance Range: 220 pF to 33 µF • **Temperature Range:** −55°C to +105°C **www.kemet.com/R75**



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

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

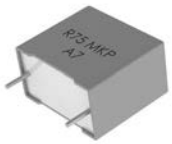
AEC-Q200 available upon request (up to 22.5 mm lead spacing).

DC Applications (cont.)

R75 Single Metallized Polypropylene, Radial, 7.5 – 37.5 mm Lead Spacing, 160 – 1,000 VDC/90 – 400 VAC (cont.)

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

www.kemet.com/R75



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

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

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

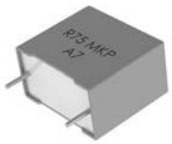
AEC-Q200 available upon request (up to 22.5 mm lead spacing).

DC Applications (cont.)

R75 Single Metallized Polypropylene, Radial, 7.5 – 37.5 mm Lead Spacing, 630 – 2,000 VDC/250 – 700 VAC (cont.)

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

www.kemet.com/R75



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

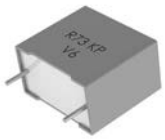
Case Size	Voltage (VDC/VAC)				
	630/250	1,000/250	1,250/600	1,600/650	2,000/700
10 - 13 x 11 x 5	15 nF – 18 nF				
10 - 13 x 12 x 6	22 nF				
15 - 18 x 10 x 4				3.9 nF – 4.7 nF	1 nF – 3.3 nF
15 - 18 x 11 x 5	27 nF – 56 nF	12 nF – 22 nF	8.2 nF – 10 nF	5.6 nF – 6.8 nF	3.9 nF – 4.7 nF
15 - 18 x 12 x 6	68 nF – 82 nF	27 nF – 33 nF	12 nF – 15 nF	8.2 nF – 10 nF	5.6 nF – 6.8 nF
15 - 18 x 12 x 13	150 nF – 180 nF	68 nF	27 nF – 33 nF	22 nF	15 nF – 18 nF
15 - 18 x 12.5 x 9	100 nF – 120 nF	47 nF – 56 nF	22 nF	18 nF	12 nF
15 - 18 x 13.5 x 7.5	100 nF – 120 nF	39 nF – 47 nF	18 nF – 22 nF	12 nF – 15 nF	8.2 nF – 10 nF
15 - 18 x 14.5 x 8.5	150 nF	56 nF – 68 nF	27 nF	18 nF	12 nF – 15 nF
15 - 18 x 16 x 10	180 nF – 220 nF	82 nF	33 nF – 39 nF	22 nF – 27 nF	18 nF
15 - 18 x 19 x 11	270 nF – 330 nF	100 nF	47 nF – 56 nF	33 nF	22 nF – 27 nF
22.5 - 26.5 x 15 x 6	82 nF – 150 nF	47 nF – 68 nF	33 nF – 39 nF	27 nF	4.7 nF – 22 nF
22.5 - 26.5 x 16 x 7	180 nF – 220 nF	82 nF – 100 nF	47 nF – 56 nF	33 nF – 39 nF	27 nF
22.5 - 26.5 x 17 x 8.5	270 nF	120 nF	68 nF	47 nF	33 nF
22.5 - 26.5 x 18.5 x 10	330 nF – 390 nF	150 nF – 180 nF	82 nF – 100 nF	56 nF – 68 nF	39 nF – 47 nF
22.5 - 26.5 x 20 x 11	470 nF – 560 nF	220 nF	120 nF	82 nF	56 nF
22.5 - 26.5 x 22 x 13	680 nF		150 nF	100 nF – 120 nF	68 nF
27.5 - 32 x 17 x 9	390 nF – 470 nF	150 nF – 180 nF	100 nF – 120 nF	68 nF – 82 nF	47 nF – 68 nF
27.5 - 32 x 20 x 11	560 nF – 680 nF	220 nF – 270 nF	150 nF – 180 nF	100 nF – 120 nF	82 nF – 100 nF
27.5 - 32 x 22 x 13	820 nF – 1 µF	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 µF – 1.5 µF	560 nF	330 nF		180 nF – 220 nF
27.5 - 32 x 33 x 18	1.8 µF – 2.2 µF	680 nF – 1 µF	390 nF – 560 nF	270 nF – 390 nF	270 nF – 330 nF
27.5 - 32 x 37 x 22	2.7 µF – 3.3 µF	1.2 µF – 1.5 µF	680 nF – 820 nF	470 nF – 560 nF	390 nF – 470 nF
37.5 - 41.5 x 22 x 11	680 nF – 1 µF	270 nF – 470 nF	270 nF	180 nF	150 nF
37.5 - 41.5 x 24 x 13	1.2 µF – 1.5 µF	560 nF – 680 nF	330 nF – 390 nF	220 nF – 270 nF	180 nF – 220 nF
37.5 - 41.5x28.5x16	1.8 µF – 2.2 µF	820 nF – 1 µF	470 nF – 560 nF	330 nF – 390 nF	270 nF – 330 nF
37.5 - 41.5 x 32 x 19	2.7 µF – 3.3 µF	1.2 µF – 1.5 µF	680 nF – 820 nF	470 nF – 560 nF	330 nF – 470 nF
37.5 - 41.5 x 40 x 20	3.9 µF – 4.7 µF	1.8 µF	1 µF – 1.2 µF	680 nF – 820 nF	560 nF – 680 nF
37.5 - 41.5 x 44 x 24	5.6 µF	2.2 µF – 2.7 µF	1.5 µF – 1.8 µF	1 µF – 1.2 µF	820 nF – 1 µF
37.5 - 41.5 x 45 x 30	6.8 µF – 8.2 µF	3.3 µF – 3.9 µF	2.2 µF	1.5 µF	

AEC-Q200 available upon request (up to 22.5 mm lead spacing).

DC Applications (cont.)

R73 Film/Foil Polypropylene, Radial, 15.0 – 37.5 mm Lead Spacing, 100 – 2,000 VDC/63 – 500 VAC

Capacitance Range: 100 pF to 2.2 µF • **Temperature Range:** −55°C to +105°C **www.kemet.com/R73**



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

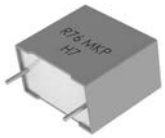
Case Size	Voltage (VDC/VAC)								
	100/63	160/90	250/125	400/160	630/300	1,000/400	1,250/450	1,600/450	2,000/500
15 - 18 x 11 x 5	47 nF	33 nF	15 nF	10 nF	10 nF – 12 nF	3.3 nF – 8.2 nF	2.2 nF – 2.7 nF	1 nF – 1.8 nF	0.1 nF – 0.7 nF
15 - 18 x 12 x 6	68 nF	47 nF	22 nF	15 nF	15 nF – 18 nF	10 nF – 12 nF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

AEC-Q200 available upon request (up to 22.5 mm lead spacing).

DC Applications (cont.)

R76 Double Metallized Polypropylene, Radial, 27.5 – 37.5 mm Lead Spacing, 250 – 2,000 VDC/160 – 700 VAC

Capacitance Range: 100 pF to 15 µF • **Temperature Range:** −55°C to +105°C **www.kemet.com/R76**



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

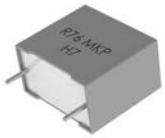
Case Size	Voltage (VDC/VAC)								
	250/160	250/180	400/250	630/250	630/400	1,000/400	1,000/600	1,600/650	2,000/700
7.5 - 10 x 8 x 3	6.8 nF – 10 nF	6.8 nF – 10 nF	2.7 nF – 5.6 nF	0.7 nF – 2.2 nF		0.2 nF – 0.6 nF			
7.5 - 10 x 9 x 4	12 nF – 22 nF	12 nF – 22 nF	6.8 nF – 12 nF	2.7 nF – 5.6 nF		0.7 nF –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

AEC-Q200 available upon request (up to 22.5 mm lead spacing).

DC Applications (cont.)

R76 Double Metallized Polypropylene, Radial, 27.5 – 37.5 mm Lead Spacing, 250 – 2,000 VDC/160 – 700 VAC

Capacitance Range: 100 pF to 15 µF • **Temperature Range:** −55°C to +105°C **www.kemet.com/R76**



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

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

AEC-Q200 available upon request (up to 22.5 mm lead spacing).

DC Applications (cont.)

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

Capacitance Range: 0.001 to 4.7 µF • **Temperature Range:** −55°C to +125°C

www.kemet.com/LDE

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

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

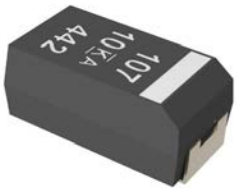
Tantalum Capacitors

KO-CAP® Polymer

T591 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



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 (125°C) 599 = AEC-Q200 qualified (150°C)	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

Case Size	Voltage								
	2.5	4	6.3	10	16	20	25	35	50
B/3528 – 21			33 µF – 68 µF	33 µF – 47 µF					
D/7343 – 31	330 µF		150 µF – 330 µF	100 µF – 220 µF	47 µF – 150 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 Automotive Grade Polymer Electrolytic (AEC-Q200)

Capacitance Range: 10 to 330 µF • **Temperature Range:** −55°C to +125°C

www.kemet.com/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 (125°C) 599 = AEC-Q200 qualified (150°C)	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

Case Size	Voltage				
	6.3	10	16	25	35
B/3528 – 21	33 µF – 68 µF	33 µF – 47 µF			
D/7343 – 31	150 µF – 330 µF	100 µF – 220 µF	100 µF – 150 µF	33 µF – 47 µF	10 µF – 33 µF
V/7343 – 20					10 µF
X/7343 – 43					33 µF

KO-CAP® Polymer (cont.)

T599 Automotive Grade Polymer, 35 V

Capacitance Range: 22 to 33 µF • **Temperature Range:** −55°C to +150°C

www.kemet.com/T599

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 (125°C) 599 = AEC-Q200 qualified (150°C)	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

Case Size	Voltage								
	2.5	4	6.3	10	16	20	25	35	50
B/3528 – 21			33 µF – 68 µF	33 µF – 47 µF					
D/7343 – 31	330 µF		150 µF – 330 µF	100 µF – 220 µF	47 µF – 150 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	

Tantalum • 125°C

T489 Automotive Grade Low DC Leakage MnO_2

Capacitance Range: 0.10 to 470 µF • **Temperature Range:** −55°C to +125°C

www.kemet.com/T489

T	489	B	156	M	016	A	T	A800	
Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Failure Rate/ Design	Termination Finish	C-Spec	Packaging (C-Spec)
T = Tantalum	Low DC leakage series	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 = 10 016 = 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 = Automotive grade 800 = ESR value (800 = 800 mΩ)	Blank = 7" reel 7280 = 13" reel

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

Tantalum • 125°C (cont.)

T491 Automotive/Industrial Grade MnO_2

Capacitance Range: 0.1 to 470 µF • **Temperature Range:** −55°C to +125°C

www.kemet.com/T491

T	491	X	157	K	020	A	T	AUTO	
Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Failure Rate/ Design	Termination Finish	C-Spec 1	Packaging (C-Spec)
T = Tantalum	Industrial	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)	AUTO = Automotive grade AUTO = AEC–Q200 certification	Blank = 7" reel 7280 = 13" reel

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

T494 Automotive/Industrial Grade MnO_2

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	AUTO	
Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Failure Rate/ Design	Termination Finish	C-Spec 1	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)	AUTO = Automotive grade (AUTO = AEC–Q200 Certification)	Blank = 7" reel 7280 = 13" reel

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

Tantalum • 125°C (cont.)

T495 Automotive Grade Surge Robust MnO_2

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

www.kemet.com/T495

T	495	X	107	M	010	A	T	A080	
Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Failure Rate/ Design	Termination Finish	ESR	Packaging (C-Spec)
T = Tantalum	Surge Robust Low ESR	A B C D E T V X	First two digits represent significant figures. Third digit specifies number of zeros.	K = ±10% M = ±20%	2R5 = 2.5 004 = 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)	A = AUTO grade product 080 = Maximum ESR in mΩ at room temperature (80 mΩ)	Blank = 7" reel 7280 = 13" reel

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

T510 Automotive Grade Multiple Anode MnO_2

Capacitance Range: 10 to 1,000 µF • **Temperature Range:** −55°C to +125°C

www.kemet.com/T510

T	510	X	477	M	006	A	T	A030	
Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Failure Rate/ Design	Termination Finish	ESR	Packaging (C-Spec)
T = Tantalum	Multiple Anode Low ESR	E X	First two digits represent significant figures. Third digit specifies number of zeros.	K = ±10% M = ±20%	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)	A = AUTO grade product 030 = Maximum ESR in mΩ at room temperature (30mΩ)	Blank = 7" Reel 7280 = 13" Reel

Case Size	Voltage							
	4	6.3	10	16	20	25	35	50
E/7360 – 38	1 mF	680 µF				100 µF	47 µF	
X/7343 – 43	680 µF – 1 mF	470 µF – 680 µF	330 µF	150 µF – 220 µF	100 µF	68 µF	22 µF – 47 µF	10 µF – 22 µF

Tantalum • 150°C

T498 Automotive Grade MnO_2 150°C

Capacitance Range: 0.1 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 = 10 016 = 16 020 = 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

Tantalum • 175°C

T499 Automotive Grade MnO_2 175°C

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 = 10 016 = 16 020 = 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	

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