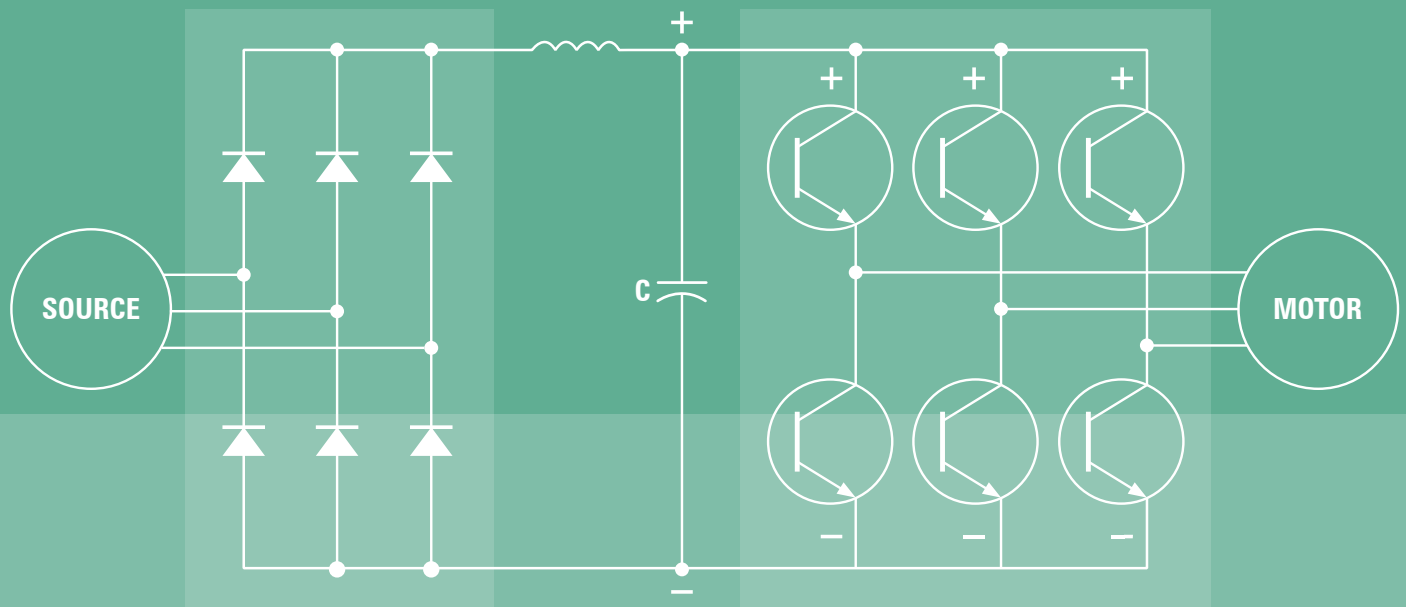

DC Link Capacitor Selection Guide

Variable Frequency Drive Components



EASY TO DESIGN IN



Capacitor Simulation Tool

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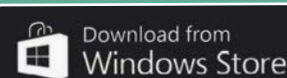


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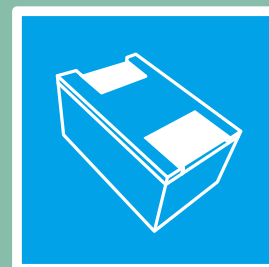
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Low Power ($\leq 200\text{ V}$) Capacitors

Low Power (≤ 200 V) Capacitors

Aluminum Electrolytic

EDK Low Profile, 4 – 100 VDC

Capacitance Range: 1 to 5,000 μ F • Temperature Range: -40°C to $+85^{\circ}\text{C}$

Lifetime: 2,000 Hours

www.kemet.com/EDK



EDK	336	M	004		A	9B	AA
Series	Capacitance Code (μ F)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Surface Mount Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	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	33 μ F – 47 μ F	22 μ F – 47 μ F	22 μ F – 33 μ F	4.7 μ F – 22 μ F	4.7 μ F – 10 μ F	2.2 μ F – 10 μ F	1 μ F – 4.7 μ F		
5 x 5.4	100 μ F	47 μ F – 100 μ F	33 μ F – 47 μ F	22 μ F – 47 μ F	10 μ F – 33 μ F	10 μ F – 22 μ F	4.7 μ F – 10 μ F		
6.3 x 5.4	220 μ F – 330 μ F	100 μ F – 220 μ F	100 μ F	33 μ F – 100 μ F	22 μ F – 47 μ F	22 μ F – 47 μ F	10 μ F – 22 μ F	4.7 μ F – 10 μ F	
6.3 x 7.7	470 μ F	220 μ F – 330 μ F	220 μ F	100 μ F – 220 μ F	47 μ F – 100 μ F	47 μ F – 100 μ F	22 μ F – 47 μ F	22 μ F	3.3 μ F – 10 μ F
8 x 10.2		470 μ F – 1 mF	330 μ F – 470 μ F	220 μ F – 470 μ F	100 μ F – 330 μ F	100 μ F – 220 μ F	33 μ F – 100 μ F	22 μ F – 47 μ F	10 μ F – 22 μ F
10 x 10.2		1 mF – 1.5 mF	470 μ F – 1 mF	330 μ F – 470 μ F	220 μ F – 470 μ F	220 μ F – 330 μ F	100 μ F – 220 μ F	100 μ F	22 μ F – 33 μ F

Aluminum Electrolytic (cont.)

ESC Low Impedance and High Frequency, 6.3 – 100 VDC

Capacitance Range: 4.7 to 15,000 μ F • Temperature Range: -40°C to $+105^{\circ}\text{C}$

Lifetime: 3,000 Hours

www.kemet.com/ESC



ESC	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 = $\pm 20\%$	6R3 = 6.3 010 = 10 016 = 16 025 = 25	035 = 35 050 = 50 063 = 63 100 = 100	A = Standard	See Dimension Table	See Ordering Options Table

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

Low Power (≤ 200 V) Capacitors

Aluminum Electrolytic (cont.)

ESX Low Impedance, High Ripple Current, 6.3 – 100 VDC

Capacitance Range: 4.7 to 15,000 μ F • Temperature Range: -40°C to $+105^{\circ}\text{C}$

Lifetime: 5,000 Hours

www.kemet.com/ESX



ESX	107	M	6R3		A	C3	AA
Series	Capacitance Code (μ F)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	6R3 = 6.3 010 = 10 016 = 16 025 = 25	035 = 35 050 = 50 063 = 63 080 = 80 100 = 100	A = Standard	See Dimension Table	See Ordering Options Table

Case Size	Voltage								
	6.3	10	16	25	35	50	63	80	100
4 x 7					6.8 μ F				
5 x 11	100 μ F – 120 μ F	10 μ F – 100 μ F	10 μ F – 68 μ F	22 μ F – 47 μ F	6.8 μ F – 47 μ F	6.8 μ F – 10 μ F	4.7 μ F – 10 μ F	4.7 μ F – 6.8 μ F	4.7 μ F
6.3 x 11	150 μ F	100 μ F – 220 μ F	68 μ F – 100 μ F	100 μ F	33 μ F	22 μ F	15 μ F	10 μ F	
8 x 7		100 μ F							
8 x 11	100 μ F – 330 μ F	220 μ F – 470 μ F	100 μ F – 220 μ F	68 μ F – 120 μ F	68 μ F – 100 μ F	33 μ F – 47 μ F	22 μ F – 33 μ F	15 μ F – 22 μ F	6.8 μ F – 15 μ F
8 x 15						100 μ F			
8 x 20		680 μ F	470 μ F						
10 x 12	470 μ F	470 μ F	330 μ F	150 μ F – 330 μ F	100 μ F – 220 μ F	68 μ F	47 μ F	33 μ F	22 μ F
10 x 15	680 μ F – 820 μ F	680 μ F – 1 mF	470 μ F – 560 μ F	220 μ F – 470 μ F	220 μ F	100 μ F – 220 μ F	68 μ F – 100 μ F	47 μ F	33 μ F
10 x 20	1 mF – 1.5 mF	820 μ F – 1 mF	680 μ F	470 μ F – 560 μ F	330 μ F	150 μ F	120 μ F	68 μ F	47 μ F
10 x 25	1.5 mF	1.2 mF	820 μ F – 1.2 mF			220 μ F	150 μ F	100 μ F	68 μ F
10 x 30	2.2 mF	1.5 mF – 3.3 mF	1 mF	680 μ F	470 μ F	330 μ F		120 μ F – 150 μ F	100 μ F
12 x 16				560 μ F					
12 x 20				1 mF	560 μ F	330 μ F			
12 x 25			1.2 mF – 1.5 mF	820 μ F – 1 mF	680 μ F – 1 mF	470 μ F	220 μ F		
12 x 30		2.2 mF	2.2 mF	1.2 mF – 1.5 mF	820 μ F		330 μ F	220 μ F	120 μ F – 150 μ F
12 x 35	3.3 mF – 4.7 mF	3.3 mF			1.2 mF	680 μ F	470 μ F	330 μ F	
12 x 40				2.2 mF	1.5 mF	820 μ F			
13 x 20		2.2 mF							100 μ F
13 x 25			2.2 mF		470 μ F	330 μ F	330 μ F		
13 x 40		4.7 mF	3.3 mF						
16 x 25						1 mF			
16 x 32	6.8 mF	4.7 mF				1 mF	680 μ F	470 μ F	220 μ F – 330 μ F
16 x 36	8.2 mF	6.8 mF	4.7 mF	3.3 mF	2.2 mF	1.2 mF	820 μ F		330 μ F
16 x 40	10 mF	8.2 mF – 0.01 F				1.5 mF		680 μ F	470 μ F
18 x 36			6.8 mF	3.9 mF			1 mF	820 μ F	470 μ F
18 x 40	15 mF		8.2 mF	4.7 mF	3.3 mF		1.2 mF	1 mF	

Aluminum Electrolytic (cont.)

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

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

Lifetime: 5,000 Hours

www.kemet.com/ESY



ESY	396	M	6R3		A	B2	AA
Series	Capacitance Code (μ F)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	6R3 = 6.3 010 = 10 016 = 16 025 = 25	035 = 35 050 = 50 063 = 63 100 = 100	A = Standard	See Dimension Table	See Ordering Options Table

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

Low Power (≤ 200 V) Capacitors

Aluminum Electrolytic (cont.)

ESW Low Impedance and High Frequency, 6.3 – 100 VDC

Capacitance Range: 2.2 to 15,000 μ F • Temperature Range: -40°C to $+105^{\circ}\text{C}$

Lifetime: 6,000 Hours

www.kemet.com/ESW



ESW	157	M	6R3		A	C3	AA
Series	Capacitance Code (μ F)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	6R3 = 6.3 010 = 10 016 = 16 025 = 25	035 = 35 050 = 50 063 = 63 100 = 100	A = Standard	See Dimension Table	See Ordering Options Table

Case Size	Voltage							
	6.3	10	16	25	35	50	63	100
5 x 11	22 μ F – 150 μ F	22 μ F – 100 μ F	10 μ F – 56 μ F	4.7 μ F – 47 μ F	4.7 μ F – 33 μ F	2.2 μ F – 22 μ F	4.7 μ F – 15 μ F	1 μ F – 6.8 μ F
6.3 x 11	150 μ F – 470 μ F	150 μ F – 220 μ F	100 μ F – 220 μ F	82 μ F – 100 μ F	47 μ F – 56 μ F	33 μ F – 47 μ F	15 μ F – 33 μ F	10 μ F – 15 μ F
6.3 x 15	330 μ F	220 μ F	180 μ F	120 μ F	68 μ F – 82 μ F	56 μ F	39 μ F	18 μ F
8 x 11	470 μ F – 680 μ F	330 μ F – 470 μ F	220 μ F – 330 μ F	150 μ F – 220 μ F	100 μ F – 150 μ F	82 μ F – 100 μ F	47 μ F – 68 μ F	15 μ F – 22 μ F
8 x 12							56 μ F	27 μ F
8 x 15	820 μ F – 1 mF	680 μ F	470 μ F	330 μ F	220 μ F	120 μ F	82 μ F – 100 μ F	33 μ F – 39 μ F
8 x 20	1.2 mF – 1.5 mF	1 mF	470 μ F – 1 mF	470 μ F	270 μ F – 330 μ F	180 μ F	120 μ F	47 μ F – 56 μ F
10 x 12.5	820 μ F	820 μ F	470 μ F	330 μ F – 470 μ F	220 μ F	150 μ F	82 μ F	47 μ F
10 x 16	1.2 mF – 1.5 mF	1 mF	470 μ F – 1 mF	470 μ F	330 μ F	220 μ F	120 μ F	68 μ F
10 x 20	1.5 mF – 2.2 mF	1.2 mF – 1.5 mF	820 μ F – 1 mF	560 μ F – 680 μ F	330 μ F – 470 μ F	220 μ F – 330 μ F	180 μ F – 220 μ F	68 μ F – 82 μ F
10 x 25	2.2 mF – 3.3 mF	1.5 mF	1.2 mF	820 μ F	560 μ F	270 μ F – 330 μ F	220 μ F	82 μ F – 100 μ F
10 x 30	2.7 mF	2.2 mF – 3.3 mF	1.5 mF	1 mF	680 μ F	330 μ F – 470 μ F	270 μ F	120 μ F
13 x 16	1.8 mF	1.5 mF	1 mF	680 μ F	470 μ F	270 μ F	180 μ F	82 μ F
13 x 20	2.2 mF – 3.3 mF	2.2 mF	1.5 mF	1 mF – 1.5 mF	680 μ F – 820 μ F	390 μ F – 470 μ F	270 μ F – 330 μ F	100 μ F – 120 μ F
13 x 25	3.9 mF	2.7 mF – 3.3 mF	2.2 mF	1.5 mF	1 mF	560 μ F – 680 μ F	330 μ F – 470 μ F	150 μ F – 180 μ F
13 x 30	4.7 mF	3.3 mF – 3.9 mF	2.7 mF	1.8 mF	1.2 mF	680 μ F	470 μ F	180 μ F – 220 μ F
13 x 35	5.6 mF	3.9 mF – 4.7 mF	3.3 mF	2.2 mF	1.5 mF	820 μ F	560 μ F – 680 μ F	270 μ F
13 x 40	6.8 mF	5.6 mF	3.9 mF	2.7 mF	1.8 mF	1 mF	680 μ F	330 μ F
16 x 16	2.7 mF	2.2 mF	1.5 mF	1 mF	680 μ F	470 μ F	270 μ F	150 μ F
16 x 20	5.6 mF	3.9 mF	2.7 mF	1.8 mF	1.2 mF	680 μ F – 820 μ F	470 μ F	180 μ F – 220 μ F
16 x 25	4.7 mF – 6.8 mF	4.7 mF – 5.6 mF	3.3 mF – 3.9 mF	1.5 mF – 2.7 mF	1.5 mF – 1.8 mF	1 mF	560 μ F	220 μ F – 330 μ F
16 x 32	8.2 mF – 0.01 F	6.8 mF	4.7 mF	3.3 mF	2.2 mF	1.2 mF – 1.5 mF	820 μ F – 1 mF	390 μ F – 470 μ F
16 x 36	10 mF	8.2 mF	5.6 mF	3.9 mF	2.7 mF	1.5 mF	270 μ F – 1 mF	470 μ F
16 x 40		10 mF	6.8 mF		3.3 mF	1.8 mF		560 μ F
18 x 16	3.9 mF	2.7 mF	2.2 mF	1.2 mF	1 mF	560 μ F	390 μ F	180 μ F
18 x 20	6.8 mF	5.6 mF	3.9 mF	2.2 mF	1.8 mF	1 mF	680 μ F	330 μ F
18 x 25	10 mF	6.8 mF	4.7 mF	3.3 mF	2.2 mF	1.2 mF	820 μ F	390 μ F
18 x 32	12 mF	8.2 mF	5.6 mF	3.9 mF	2.7 mF	1.8 mF	1 mF – 1.2 mF	470 μ F
18 x 36	15 mF	10 mF	8.2 mF	4.7 mF	3.3 mF	2.2 mF		680 μ F
18 x 40		15 mF	10 mF	6.8 mF	4.7 mF			820 μ F

Aluminum Electrolytic (cont.)

EDH Low Profile, High Voltage, 6.3 – 450 VDC

Capacitance Range: 1 to 2,200 μ F • Temperature Range: -40°C to +105°C and -25°C to +105°C

Lifetime: 2,000 Hours

www.kemet.com/EDH



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

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

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

Low Power (≤ 200 V) Capacitors

Aluminum Electrolytic (cont.)

ESE General Purpose, 6.3 – 450 VDC

Capacitance Range: 1 to 15,000 μ F • Temperature Range: -40°C to +105°C

Lifetime: 1,000 Hours

www.kemet.com/ESE



ESE	476	M	6R3		A	C3	AA
Series	Capacitance Code (μ F)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	6R3 = 6.3 010 = 10 016 = 16 025 = 25 035 = 35 050 = 50 063 = 63	100 = 100 160 = 160 200 = 200 250 = 250 350 = 350 400 = 400 450 = 450	A = Standard	See Dimension Table	See Ordering Options Table

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

Aluminum Electrolytic (cont.)

ESE General Purpose, 6.3 – 450 VDC (cont.)

Capacitance Range: 1 to 15,000 μ F • Temperature Range: -40°C to +105°C

Lifetime: 1,000 Hours

www.kemet.com/ESE



ESE	476	M	6R3		A	C3	AA
Series	Capacitance Code (μ F)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	6R3 = 6.3 010 = 10 016 = 16 025 = 25 035 = 35 050 = 50 063 = 63	100 = 100 160 = 160 200 = 200 250 = 250 350 = 350 400 = 400 450 = 450	A = Standard	See Dimension Table	See Ordering Options Table

Case Size	Voltage						
	100	160	200	250	350	400	450
5 x 11	1 μ F – 10 μ F	1 μ F	1 μ F				
6.3 x 11	10 μ F – 15 μ F	2.2 μ F – 4.7 μ F	2.2 μ F – 3.3 μ F	1 μ F – 2.2 μ F	1 μ F	1 μ F – 2.2 μ F	1 μ F
8 x 11	22 μ F – 33 μ F	6.8 μ F – 10 μ F	4.7 μ F – 6.8 μ F	3.3 μ F – 6.8 μ F	2.2 μ F – 4.7 μ F	1 μ F – 4.7 μ F	1 μ F – 2.2 μ F
8 x 15						6.8 μ F	
8 x 20							
10 x 12.5	47 μ F	15 μ F	10 μ F	10 μ F		4.7 μ F – 6.8 μ F	2.2 μ F – 4.7 μ F
10 x 15	68 μ F	22 μ F	15 μ F – 22 μ F	15 μ F	10 μ F	10 μ F	6.8 μ F
10 x 20	100 μ F	33 μ F – 47 μ F	33 μ F	22 μ F	15 μ F	15 μ F	10 μ F
10 x 25							
13 x 20	150 μ F	68 μ F	47 μ F	33 μ F	22 μ F	22 μ F	15 μ F
13 x 25	220 μ F – 330 μ F	100 μ F	68 μ F	47 μ F – 68 μ F	33 μ F	33 μ F	22 μ F
16 x 20						33 μ F	
16 x 25	470 μ F	150 μ F	100 μ F	100 μ F	47 μ F	47 μ F	33 μ F
16 x 32		220 μ F	150 μ F	150 μ F		68 μ F	47 μ F
16 x 36	680 μ F		220 μ F				
18 x 20						47 μ F	
18 x 25						68 μ F	
18 x 32			220 μ F		100 μ F	100 μ F – 120 μ F	68 μ F
18 x 36		330 μ F	330 μ F	220 μ F		150 μ F	100 μ F
18 x 40	1 mF	470 μ F			150 μ F	150 μ F	
18 x 45						180 μ F	

Low Power (≤ 200 V) Capacitors

Aluminum Electrolytic (cont.)

ESH High CV, 6.3 – 500 VDC

Capacitance Range: 1 to 22,000 μ F • Temperature Range: -40°C to +105°C

Lifetime: 2,000 Hours

www.kemet.com/ESH



ESH	107	M	6R3		A	C3	AA
Series	Capacitance Code (μ F)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	6R3 = 6.3 010 = 10 016 = 16 025 = 25 035 = 35 050 = 50 063 = 63 100 = 100	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 μ F – 150 μ F	47 μ F – 150 μ F	33 μ F – 100 μ F	22 μ F – 47 μ F	10 μ F – 47 μ F	1 μ F – 33 μ F	1 μ F – 15 μ F	1 μ F – 6.8 μ F
6.3 x 11	220 μ F – 470 μ F	220 μ F – 470 μ F	150 μ F – 220 μ F	68 μ F – 100 μ F	68 μ F – 100 μ F	47 μ F	22 μ F – 33 μ F	10 μ F – 15 μ F
8 x 11	680 μ F	330 μ F – 680 μ F	330 μ F – 470 μ F	150 μ F – 330 μ F	150 μ F	68 μ F – 100 μ F	47 μ F	22 μ F – 33 μ F
8 x 15	1 mF	1 mF	680 μ F	470 μ F				
10 x 12.5	1 mF	680 μ F – 1 mF	680 μ F	330 μ F – 470 μ F	220 μ F – 330 μ F	150 μ F – 220 μ F	68 μ F – 100 μ F	47 μ F
10 x 15	1.5 mF		1 mF	680 μ F	470 μ F	220 μ F	150 μ F	68 μ F
10 x 20	2.2 mF	1.5 mF – 2.2 mF	1.5 mF	1 mF	680 μ F	330 μ F – 470 μ F	220 μ F	100 μ F
13 x 20	3.3 mF – 4.7 mF	3.3 mF	2.2 mF	1.5 mF	1 mF	470 μ F – 680 μ F	330 μ F – 470 μ F	150 μ F
13 x 25		4.7 mF	3.3 mF	2.2 mF	1.5 mF	1 mF		220 μ F
16 x 25	6.8 mF	6.8 mF	4.7 mF	3.3 mF	2.2 mF	1.5 mF	680 μ F	330 μ F
16 x 32	10 mF		6.8 mF	4.7 mF			1 mF	470 μ F
16 x 36	15 mF	10 mF			3.3 mF	2.2 mF	1.5 mF	680 μ F
18 x 36		15 mF	10 mF	6.8 mF	4.7 mF	3.3 mF	2.2 mF	
18 x 40	22 mF							

Aluminum Electrolytic (cont.)

ESH High CV, 6.3 – 500 VDC (cont.)

Capacitance Range: 1 to 22,000 μ F • Temperature Range: -40°C to +105°C

Lifetime: 2,000 Hours

www.kemet.com/ESH



ESH	107	M	6R3		A	C3	AA
Series	Capacitance Code (μ F)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	6R3 = 6.3 010 = 10 016 = 16 025 = 25 035 = 35 050 = 50 063 = 63 100 = 100	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 μ F							
6.3 x 11	2.2 μ F – 4.7 μ F	1 μ F – 3.3 μ F	1 μ F – 2.2 μ F	1 μ F	1 μ F	1 μ F	1 μ F	
8 x 11	6.8 μ F – 10 μ F	4.7 μ F – 6.8 μ F	3.3 μ F – 6.8 μ F	2.2 μ F – 4.7 μ F	2.2 μ F – 4.7 μ F	2.2 μ F – 3.3 μ F	1 μ F – 2.2 μ F	2.2 μ F
8 x 15					6.8 μ F		3.3 μ F	
8 x 16								3.3 μ F – 4.7 μ F
10 x 12.5	15 μ F	10 μ F	10 μ F		4.7 μ F – 6.8 μ F	4.7 μ F	2.2 μ F – 4.7 μ F	4.7 μ F
10 x 15	22 μ F	15 μ F	15 μ F	10 μ F	4.7 μ F – 10 μ F	6.8 μ F	6.8 μ F	
10 x 16								6.8 μ F
10 x 20	33 μ F – 47 μ F	22 μ F	22 μ F		15 μ F	10 μ F	10 μ F	8.2 μ F – 10 μ F
13 x 20	68 μ F	33 μ F – 47 μ F	33 μ F	22 μ F	22 μ F	15 μ F	15 μ F	10 μ F
13 x 25	100 μ F	68 μ F	47 μ F – 68 μ F	33 μ F	33 μ F	22 μ F	22 μ F	15 μ F – 22 μ F
16 x 25	150 μ F	100 μ F	100 μ F	47 μ F	47 μ F	33 μ F – 47 μ F	33 μ F – 47 μ F	22 μ F
16 x 32	220 μ F	150 μ F	150 μ F		68 μ F	68 μ F		47 μ F
16 x 36		220 μ F						
18 x 25					68 μ F	68 μ F		33 μ F
18 x 30								47 μ F
18 x 32		220 μ F		100 μ F	100 μ F – 120 μ F		68 μ F	68 μ F
18 x 36	330 μ F	330 μ F	220 μ F		120 μ F	100 μ F	100 μ F	68 μ F
18 x 40	470 μ F				150 μ F	120 μ F	120 μ F	82 μ F
18 x 45						150 μ F	150 μ F	

Low Power ($\leq 200\text{ V}$) Capacitors

Aluminum Electrolytic (cont.)

EAK High Temperature and Long Life, 10 – 450 VDC

Capacitance Range: 1 to 4,700 μF • Temperature Range: -40°C to $+125^{\circ}\text{C}$ and -25°C to $+125^{\circ}\text{C}$

Lifetime: 5,000 Hours

www.kemet.com/EAK



EAK	227	M	010		A	G3	AA
Series	Capacitance Code (μF)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	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
8 x 11	220 μF	220 μF	100 μF		47 μF	47 μF
8 x 16						
10 x 12		330 μF				
10 x 12.5	330 μF	330 μF	220 μF	100 μF	100 μF	
10 x 15						100 μF
10 x 16	470 μF		330 μF	220 μF		
10 x 20	1 mF	470 μF	470 μF	330 μF	220 μF	
10 x 25						
13 x 20		1 mF		470 μF	330 μF	220 μF
13 x 25	2.2 mF		1 mF		470 μF	330 μF
13 x 30						
16 x 20						
16 x 25	3.3 mF	2.2 mF		1 mF		470 μF
16 x 32	4.7 mF	3.3 mF	2.2 mF		1 mF	
18 x 32		4.7 mF				

Aluminum Electrolytic (cont.)

EAK High Temperature and Long Life, 10 – 450 VDC (cont.)

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

Lifetime: 5,000 Hours

www.kemet.com/EAK



EAK	227	M	010		A	G3	AA
Series	Capacitance Code (μ F)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	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					
	160	200	250	350	400	450
8 x 11	3.3 μ F	3.3 μ F	2.2 μ F	1 μ F		
8 x 16						1 μ F
10 x 12		4.7 μ F				
10 x 12.5	4.7 μ F	4.7 μ F	3.3 μ F	2.2 μ F	1 μ F	
10 x 15						
10 x 16	10 μ F		4.7 μ F	3.3 μ F	2.2 μ F – 3.3 μ F	2.2 μ F
10 x 20	22 μ F	10 μ F	10 μ F	4.7 μ F	4.7 μ F	3.3 μ F
10 x 25	33 μ F	22 μ F		10 μ F	10 μ F	4.7 μ F
13 x 20	47 μ F	33 μ F	22 μ F			10 μ F
13 x 25	68 μ F	47 μ F	33 μ F	22 μ F		
13 x 30					22 μ F	
16 x 20		68 μ F				
16 x 25	100 μ F	100 μ F	47 μ F	33 μ F	33 μ F	22 μ F
16 x 32	150 μ F		68 μ F	47 μ F	47 μ F	33 μ F

Low Power ($\leq 200\text{ V}$) Capacitors

Aluminum Electrolytic (cont.)

PEG124 Very Long Life, 10 – 450 VDC

Capacitance Range: 1 to 4,700 μF • Temperature Range: -40°C to $+105^{\circ}\text{C}$ and -40°C to $+125^{\circ}\text{C}$

Lifetime: 27,500 Hours

www.kemet.com/PEG124



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

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

Aluminum Electrolytic (cont.)

ESL Long Life and High Reliability, 16 – 450 VDC

Capacitance Range: 0.47 to 6,800 μ F • Temperature Range: -40°C to +105°C

Lifetime: 10,000 Hours

www.kemet.com/ESL



ESL	106	M	016		A	C3	AA
Series	Capacitance Code (μ F)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	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					
	16	25	35	50	63	100
5 x 11	10 μ F – 100 μ F	10 μ F – 68 μ F	10 μ F – 47 μ F	10 μ F – 22 μ F	470 nF – 15 μ F	470 nF – 4.7 μ F
6.3 x 11	120 μ F – 220 μ F	100 μ F – 150 μ F	56 μ F – 100 μ F	33 μ F – 56 μ F	18 μ F – 33 μ F	5.6 μ F – 10 μ F
8 x 11.5	270 μ F – 470 μ F	180 μ F – 330 μ F	120 μ F – 180 μ F	68 μ F – 100 μ F	39 μ F – 68 μ F	12 μ F – 22 μ F
8 x 12						
8 x 16	560 μ F – 680 μ F	390 μ F	220 μ F – 270 μ F	120 μ F – 150 μ F	82 μ F – 100 μ F	27 μ F – 33 μ F
8 x 20	820 μ F – 1 mF	560 μ F	390 μ F	220 μ F	150 μ F	68 μ F
8 x 50						
10 x 12.5	560 μ F – 680 μ F	390 μ F – 470 μ F	220 μ F – 330 μ F		100 μ F – 120 μ F	27 μ F – 56 μ F
10 x 16	820 μ F – 1 mF	560 μ F – 680 μ F	390 μ F – 470 μ F	180 μ F – 220 μ F	150 μ F – 180 μ F	82 μ F
10 x 20	1.2 mF – 1.5 mF	820 μ F	560 μ F	270 μ F	220 μ F – 270 μ F	100 μ F
10 x 25	1.8 mF	1 mF	680 μ F	330 μ F – 390 μ F	330 μ F	120 μ F
10 x 40						
10 x 50						
12.5 x 15	1.2 mF – 1.5 mF	820 μ F	560 μ F	270 μ F	220 μ F – 270 μ F	100 μ F
12.5 x 20	1.8 mF – 2.2 mF	1 mF – 1.5 mF	680 μ F – 1 mF	390 μ F – 470 μ F	330 μ F – 390 μ F	150 μ F
12.5 x 25	2.7 mF	1.8 mF	1.2 mF	560 μ F	470 μ F	180 μ F – 220 μ F
12.5 x 30	3.3 mF – 3.9 mF	2.2 mF	1.5 mF	680 μ F – 820 μ F	560 μ F	270 μ F
12.5 x 35	4.7 mF	2.7 mF	1.8 mF	1 mF	680 μ F	330 μ F
12.5 x 40		3.3 mF			820 μ F	390 μ F
12.5 x 50						
16 x 20	3.3 mF – 3.9 mF	2.2 mF	1.5 mF		560 μ F	270 μ F
16 x 25	4.7 mF	2.7 mF – 3.3 mF	1.8 mF – 2.2 mF	1 mF	680 μ F – 820 μ F	330 μ F
16 x 30	5.6 mF – 6.8 mF	3.9 mF	2.7 mF	1.2 mF	1 mF – 1.2 mF	470 μ F
16 x 35		4.7 mF		1.5 mF	1.5 mF	560 μ F
16 x 40				1.8 mF	1.8 mF	680 μ F
18 x 25	5.6 mF – 6.8 mF	3.9 mF	2.7 mF	1.2 mF – 1.5 mF	1.2 mF	
18 x 30		4.7 mF			1.5 mF	560 μ F
18 x 35		5.6 mF	3.3 mF	1.8 mF – 2.2 mF		680 μ F
18 x 40		6.8 mF	3.9 mF		2.2 mF	820 μ F

Low Power ($\leq 200\text{ V}$) Capacitors

Aluminum Electrolytic (cont.)

ESL Long Life and High Reliability, 16 – 450 VDC (cont.)

Capacitance Range: 0.47 to 6,800 μF • Temperature Range: -40°C to $+105^{\circ}\text{C}$

Lifetime: 10,000 Hours

www.kemet.com/ESL



ESL	106	M	016		A	C3	AA
Series	Capacitance Code (μF)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	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					
	160	200	250	350	400	450
6.3 x 11	1.8 μF – 3.9 μF	2.2 μF – 3.9 μF	2.2 μF – 3.3 μF	1 μF – 2.2 μF	1 μF – 1.8 μF	1 μF – 1.2 μF
8 x 11.5	4.7 μF – 8.2 μF	4.7 μF – 8.2 μF	3.9 μF – 6.8 μF	2.7 μF – 4.7 μF	2.2 μF – 4.7 μF	1.5 μF – 1.8 μF
8 x 12		10 μF	8.2 μF			
8 x 16	10 μF – 18 μF	12 μF – 15 μF	10 μF	5.6 μF	4.7 μF – 5.6 μF	2.2 μF – 3.9 μF
8 x 20	22 μF		15 μF	8.2 μF	6.8 μF	4.7 μF – 5.6 μF
8 x 50	56 μF	47 μF	33 μF	22 μF	22 μF	15 μF
10 x 12.5	15 μF		10 μF	5.6 μF – 6.8 μF	5.6 μF	
10 x 16	22 μF – 27 μF	18 μF – 22 μF	15 μF – 18 μF	8.2 μF – 10 μF	6.8 μF – 8.2 μF	4.7 μF – 6.8 μF
10 x 20	33 μF	27 μF	22 μF		10 μF	8.2 μF
10 x 25	39 μF – 47 μF	33 μF		15 μF – 18 μF		10 μF
10 x 40						22 μF
10 x 50	100 μF	56 μF	68 μF	33 μF	33 μF	33 μF
12.5 x 15	33 μF – 39 μF			15 μF		
12.5 x 20	47 μF – 68 μF	39 μF – 47 μF	33 μF	18 μF – 22 μF	15 μF – 18 μF	10 μF – 15 μF
12.5 x 25	82 μF	56 μF	47 μF	33 μF	22 μF	18 μF
12.5 x 30		68 μF	56 μF – 68 μF			
12.5 x 35						
12.5 x 40						
12.5 x 50	150 μF		100 μF	68 μF	56 μF	47 μF
16 x 20	100 μF					22 μF
16 x 25	120 μF	82 μF – 100 μF		47 μF	33 μF	33 μF
16 x 30	150 μF – 180 μF	120 μF	82 μF – 100 μF	56 μF	56 μF	
16 x 35		150 μF				47 μF – 56 μF
16 x 40					82 μF	
18 x 25				68 μF	47 μF	
18 x 30	220 μF	180 μF	120 μF – 150 μF	82 μF	68 μF	
18 x 35	270 μF	220 μF	180 μF	100 μF – 120 μF	82 μF	68 μF
18 x 40	330 μF		220 μF		100 μF	82 μF

Aluminum Electrolytic (cont.)

ALC40 Long Life and High Ripple Current, 25 – 500 VDC

Capacitance Range: 47 to 120,000 μ F • Temperature Range: -40°C to $+105^{\circ}\text{C}$

Lifetime: 9,000 Hours

www.kemet.com/ALC40



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

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

Low Power ($\leq 200\text{ V}$) Capacitors

Aluminum Electrolytic (cont.)

ESZ Long Life and High Reliability, 160 – 450 VDC

Capacitance Range: 3.3 to 330 μF • Temperature Range: -40°C to $+105^{\circ}\text{C}$

Lifetime: 10,000 Hours

www.kemet.com/ESZ



ESZ	336	M	160	A	H4	AA
Series	Capacitance Code (μF)	Tolerance	Rated Voltage (VDC)	Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	160 = 160 200 = 200 400 = 400 450 = 450	A = Standard	See Dimension Table	See Ordering Options Table

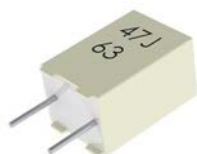
Case Size	Voltage			
	160	200	400	450
10 x 16				3.3 μF
10 x 20	33 μF – 47 μF	22 μF – 33 μF	6.8 μF – 10 μF	4.7 μF – 6.8 μF
12.5 x 20	47 μF	33 μF		6.8 μF – 10 μF
13 x 20		47 μF		
13 x 25	68 μF – 100 μF	68 μF		
16 x 20	68 μF – 100 μF	68 μF	22 μF	
16 x 25	100 μF – 150 μF	100 μF	33 μF	22 μF
16 x 32	150 μF – 220 μF	150 μF	47 μF	33 μF
16 x 36				47 μF
18 x 20	100 μF			22 μF
18 x 25	150 μF – 220 μF			33 μF
18 x 32			68 μF	47 μF
18 x 36	330 μF			

Film

R82 Radial Metallized Polyester, 5 mm Lead Spacing, 50 – 400 VDC (Automotive Grade)

Capacitance Range: 0.001 to 4.7 μ F • 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 = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$

Case Size	Voltage (VDC/VAC)						
	50/30	63/40	100/63	250/140	250/160	400/160	400/200
5 – 7.2 x 10 x 5		1 μ F	680 nF	150 nF	100 nF	47 nF	33 nF
5 – 7.2 x 11 x 6	2.2 μ F	1.5 μ F	1 μ F	220 nF	150 nF	68 nF	47 nF
5 – 7.2 x 6.5 x 2.5		100 nF – 220 nF	1 nF – 100 nF	22 nF	6.8 nF – 15 nF	6.8 nF	1 nF – 4.7 nF
5 – 7.2 x 7.5 x 3.5		330 nF – 470 nF	150 nF – 220 nF	47 nF – 68 nF	22 nF – 33 nF	15 nF	6.8 nF – 10 nF
5 – 7.2 x 9.5 x 4.5		680 nF	330 nF – 470 nF	100 nF	47 nF – 68 nF	33 nF	15 nF – 22 nF
5 – 7.2 x 13 x 7.2	3.3 μ F – 4.7 μ F						

F161 Encapsulated Stacked, Size 2220 – 6560, 50 – 630 VDC (Automotive Grade)

Capacitance Range: 0.01 to 12 μ F • Temperature Range: -55°C to +125°C

www.kemet.com/F161



F	161	P	P	103	K	050	V
Capacitor Class	Series	Chip Size	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging Code
F = Film	Metallized Polyester Stacked Technology	P = 2220 S = 2824 W = 4036 Y = 5045 Z = 6560	See Dimension Table	First two digits indicate the two most significant digits of the capacitance value in picofarads. The third digit is the number of following zeros.	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$ Other tolerances on request.	050 = 50 063 = 63 100 = 100 250 = 250 400 = 400 630 = 630	See Ordering Options Table

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

Low Power (≤ 200 V) Capacitors

Film (cont.)

RSB Radial Metallized Polyester, 5 mm Lead Spacing, 50 – 630 VDC (Automotive Grade)

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

www.kemet.com/RSB



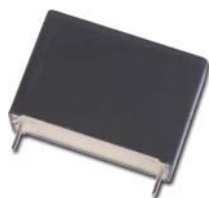
RSB	D	C	3100	AA	00	J
Series	Rated Voltage (VDC)	Length (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
Metallized Polyester	C = 50 D = 63 E = 100 I = 250 M = 400 W = 500 P = 630	C = 5.0	The last three digits represent significant figures. First digit specifies the number of zeros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

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

R66 Radial Metallized Polyester, 7.5 mm Lead Spacing, 50 – 630 VDC (Automotive Grade)

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

www.kemet.com/R66



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

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

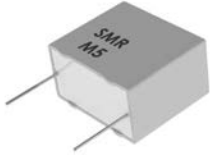
Film (cont.)

SMR Polyphenylene Sulfide, 5.0 – 27.5 mm Lead Spacing, 50 – 400 VDC

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

www.kemet.com/SMR

Legacy Part Number System



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

New KEMET Part Number System

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

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

Low Power (≤ 200 V) Capacitors

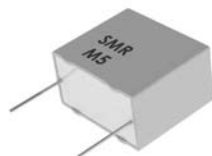
Film (cont.)

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

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

www.kemet.com/SMR

Legacy Part Number System



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

New KEMET Part Number System

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

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

Film (cont.)

R60 Radial Metallized Polyester, 10.0 – 37.5 mm Lead Spacing, 50 – 1,000 VDC (Automotive Grade)

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

www.kemet.com/R60



R60	M	F	2470	AA	60	K
Series	Rated Voltage (VDC)	Length (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
Metallized Polyester	C = 50 D = 63 E = 100 G = 160 I = 250 M = 400 P = 630 Q = 1000	F = 10 I = 15 N = 22.5 R = 27.5 W = 37.5	The last three digits represent significant figures. First digit specifies the number of zeros to be added.	See Ordering Options Table	00 01 30 40 50 6A L0 L1	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$

Case Size	Voltage (VDC/VAC)							
	50/30	63/40	100/63	160/90	250/160	400/200	630/220	1,000/250
10 – 13 x 11 x 5	3.3 μ F	1.5 μ F – 2.2 μ F	1 μ F – 1.5 μ F	470 nF	220 nF – 330 nF	100 nF	22 nF – 47 nF	4.7 nF
10 – 13 x 12 x 6	4.7 μ F – 5.6 μ F	3.3 μ F		680 nF	470 nF	150 nF	33 nF – 47 nF	6.8 nF
10 – 13 x 9 x 4	1.5 μ F – 2.2 μ F	1 μ F	330 nF – 680 nF	220 nF – 330 nF	100 nF – 150 nF	33 nF – 68 nF	4.7 nF – 22 nF	1 nF – 3.3 nF
15 – 18 x 11 x 5		680 nF – 1.5 μ F	330 nF – 1 μ F	330 nF – 680 nF	100 nF – 330 nF	22 nF – 220 nF	33 nF – 68 nF	10 nF – 15 nF
15 – 18 x 12 x 13		4.7 μ F	3.3 μ F	2.2 μ F	1 μ F	470 nF – 680 nF		47 nF
15 – 18 x 12 x 6		2.2 μ F			470 nF	220 nF	68 nF – 100 nF	22 nF
15 – 18 x 12.5 x 9		3.3 μ F	2.2 μ F	1.5 μ F	680 nF	330 nF – 470 nF	100 nF	33 nF
15 – 18 x 13.5 x 7.5		3.3 μ F	1.5 μ F	1 μ F	680 nF	330 nF – 470 nF	100 nF – 150 nF	33 nF
15 – 18 x 16 x 10		6.8 μ F	3.3 μ F	2.2 μ F	1.5 μ F	680 nF	220 nF – 330 nF	47 nF
15 – 18 x 19 x 11			4.7 μ F	3.3 μ F		680 nF – 1 μ F		68 nF
15 – 18 x 14.5 x 8.5		4.7 μ F	2.2 μ F	1.5 μ F	1 μ F	470 nF	150 nF – 220 nF	
22.5 – 26.5 x 15 x 6		3.3 μ F	1.5 μ F – 2.2 μ F	1.5 μ F	470 nF – 1 μ F	220 nF – 680 nF	100 nF – 220 nF	33 nF – 47 nF
22.5 – 26.5 x 16 x 7		4.7 μ F – 6.8 μ F	3.3 μ F	2.2 μ F	1.5 μ F	680 nF	220 nF – 330 nF	68 nF
22.5 – 26.5 x 17 x 8.5		10 μ F	4.7 μ F	3.3 μ F		1 μ F	330 nF	100 nF
22.5 – 26.5 x 22 x 13			10 μ F	6.8 μ F		2.2 μ F	680 nF	150 nF
22.5 – 26.5 x 18.5 x 10			6.8 μ F		2.2 μ F	1 μ F – 1.5 μ F	330 nF – 470 nF	
22.5 – 26.5 x 20 x 11		15 μ F		4.7 μ F	3.3 μ F	1.5 μ F	470 nF – 680 nF	
27.5 – 32 x 17 x 9		10 μ F	4.7 μ F – 10 μ F	3.3 μ F – 10 μ F	1.5 μ F – 4.7 μ F	680 nF – 1.5 μ F	330 nF – 470 nF	150 nF – 220 nF
27.5 – 32 x 20 x 11		15 μ F – 22 μ F	15 μ F	15 μ F	6.8 μ F	2.2 μ F	680 nF – 1 μ F	330 nF
27.5 – 32 x 22 x 13		22 μ F	22 μ F	22 μ F	10 μ F	3.3 μ F		470 nF
27.5 – 32 x 28 x 14			33 μ F	33 μ F	15 μ F	4.7 μ F		680 nF
27.5 – 32 x 33 x 18		33 μ F		47 μ F	22 μ F	6.8 μ F	1.5 μ F – 2.2 μ F	1 μ F
27.5 – 32 x 37 x 22		47 μ F – 68 μ F	47 μ F – 68 μ F	68 μ F	33 μ F	10 μ F	3.3 μ F – 4.7 μ F	1.5 μ F
37.5 – 41.5 x 22 x 11		22 μ F	15 μ F – 22 μ F	10 μ F – 22 μ F	4.7 μ F – 10 μ F	3.3 μ F – 4.7 μ F	1 μ F – 1.5 μ F	470 nF – 680 nF
37.5 – 41.5 x 28.5 x 16		47 μ F	47 μ F	47 μ F	22 μ F	10 μ F	3.3 μ F	1 μ F
37.5 – 41.5 x 32 x 19		68 μ F	68 μ F	68 μ F	33 μ F		4.7 μ F	1.5 μ F
37.5 – 41.5 x 40 x 20		100 μ F		100 μ F	47 μ F		6.8 μ F	2.2 μ F
37.5 – 41.5 x 44 x 24		100 μ F	100 μ F		68 μ F	15 μ F – 22 μ F	10 μ F	3.3 μ F
37.5 – 41.5 x 45 x 30			150 μ F	150 μ F		33 μ F		4.7 μ F
37.5 – 41.5 x 24 x 13		33 μ F	33 μ F	33 μ F	15 μ F	6.8 μ F	2.2 μ F	

**Mid Power
(200 – 500 V)
Capacitors**

Mid Power (200 – 500 V) Capacitors

Aluminum Electrolytic

ESE General Purpose, 6.3 – 450 VDC

Capacitance Range: 1 to 15,000 μF • Temperature Range: -40°C to $+105^{\circ}\text{C}$

Lifetime: 1,000 Hours

www.kemet.com/ESE



ESE	476	M	6R3		A	C3	AA
Series	Capacitance Code (μF)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	6R3 = 6.3 010 = 10 016 = 16 025 = 25 035 = 35 050 = 50 063 = 63	100 = 100 160 = 160 200 = 200 250 = 250 350 = 350 400 = 400 450 = 450	A = Standard	See Dimension Table	See Ordering Options Table

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

Aluminum Electrolytic (cont.)

ESE General Purpose, 6.3 – 450 VDC (cont.)

Capacitance Range: 1 to 15,000 μF • Temperature Range: -40°C to $+105^{\circ}\text{C}$

Lifetime: 1,000 Hours

www.kemet.com/ESE



ESE	476	M	6R3		A	C3	AA
Series	Capacitance Code (μF)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	$M = \pm 20\%$	6R3 = 6.3 010 = 10 016 = 16 025 = 25 035 = 35 050 = 50 063 = 63	100 = 100 160 = 160 200 = 200 250 = 250 350 = 350 400 = 400 450 = 450	A = Standard	See Dimension Table	See Ordering Options Table

Case Size	Voltage						
	100	160	200	250	350	400	450
5 x 11	1 μF – 10 μF	1 μF	1 μF				
6.3 x 11	10 μF – 15 μF	2.2 μF – 4.7 μF	2.2 μF – 3.3 μF	1 μF – 2.2 μF	1 μF	1 μF – 2.2 μF	1 μF
8 x 11	22 μF – 33 μF	6.8 μF – 10 μF	4.7 μF – 6.8 μF	3.3 μF – 6.8 μF	2.2 μF – 4.7 μF	1 μF – 4.7 μF	1 μF – 2.2 μF
8 x 15						6.8 μF	
8 x 20							
10 x 12.5	47 μF	15 μF	10 μF	10 μF		4.7 μF – 6.8 μF	2.2 μF – 4.7 μF
10 x 15	68 μF	22 μF	15 μF – 22 μF	15 μF	10 μF	10 μF	6.8 μF
10 x 20	100 μF	33 μF – 47 μF	33 μF	22 μF	15 μF	15 μF	10 μF
10 x 25							
13 x 20	150 μF	68 μF	47 μF	33 μF	22 μF	22 μF	15 μF
13 x 25	220 μF – 330 μF	100 μF	68 μF	47 μF – 68 μF	33 μF	33 μF	22 μF
16 x 20						33 μF	
16 x 25	470 μF	150 μF	100 μF	100 μF	47 μF	47 μF	33 μF
16 x 32		220 μF	150 μF	150 μF		68 μF	47 μF
16 x 36	680 μF		220 μF				
18 x 20						47 μF	
18 x 25						68 μF	
18 x 32			220 μF		100 μF	100 μF – 120 μF	68 μF
18 x 36		330 μF	330 μF	220 μF		150 μF	100 μF
18 x 40	1 mF	470 μF			150 μF	150 μF	
18 x 45						180 μF	

Mid Power (200 – 500 V) Capacitors

Aluminum Electrolytic (cont.)

EDH Low Profile, High Voltage, 6.3 – 450 VDC

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

Lifetime: 2,000 Hours

www.kemet.com/EDH



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

Case Size	Voltage					
	6.3	10	16	25	35	50
4 x 5.4	22 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

Aluminum Electrolytic (cont.)

ESK General Purpose, 6.3 – 500 VDC

Capacitance Range: 1 to 22,000 μF • Temperature Range: -40°C to $+85^{\circ}\text{C}$

Lifetime: 2,000 Hours

www.kemet.com/ESK



ESK	226	M	6R3		A	C3	AA
Series	Capacitance Code (μF)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	$M = \pm 20\%$	6R3 = 6.3 010 = 10 016 = 16 025 = 25 035 = 35 050 = 50 063 = 63	100 = 100 160 = 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 – 100 μF	4.7 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	150 μF – 330 μF	100 μF	100 μF	47 μF	22 μF – 47 μF	10 μF – 22 μF
8 x 11	680 μF – 1 mF	680 μF	330 μF – 470 μF	220 μF – 330 μF	220 μF	100 μF		22 μF – 33 μF
8 x 15				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			1 mF	680 μF	470 μF	330 μF	220 μF	68 μF
10 x 20	2.2 mF – 3.3 mF	2.2 mF		1 mF	680 μF	470 μF	220 μF – 330 μF	100 μF
13 x 16				1 mF				
13 x 20	4.7 mF	3.3 mF	2.2 mF		1 mF		470 μF	150 μF
13 x 25	6.8 mF	4.7 mF	3.3 mF	2.2 mF		1 mF	680 μF	220 μF – 330 μF
16 x 25	10 mF	6.8 mF	4.7 mF	3.3 mF	2.2 mF		1 mF	470 μF
16 x 32			6.8 mF	4.7 mF				
16 x 36	15 mF	10 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	6.8 mF	4.7 mF	3.3 mF	2.2 mF	
18 x 40	22 mF							1 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	

Mid Power (200 – 500 V) Capacitors

Aluminum Electrolytic (cont.)

ESK General Purpose, 6.3 – 500 VDC

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

Lifetime: 2,000 Hours

www.kemet.com/ESK



ESK	226	M	6R3		A	C3	AA
Series	Capacitance Code (μF)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	6R3 = 6.3 010 = 10 016 = 16 025 = 25 035 = 35 050 = 50 063 = 63	100 = 100 160 = 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	10 μF	6.8 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	22 μF		10 μF	10 μF	6.8 μF	3.3 μF
10 x 20	33 μF – 47 μF	33 μF – 47 μF	22 μF			10 μF	6.8 μF
13 x 16							
13 x 20	68 μF	47 μF	33 μF	22 μF	22 μF	10 μF	10 μF
13 x 25	100 μF		47 μF	33 μF	33 μF	22 μF	
16 x 25	150 μF	100 μF	100 μF	47 μF	47 μF	33 μF	22 μF – 33 μF
16 x 32	220 μF	220 μF	150 μF		68 μF	47 μF	
16 x 36				100 μF			
16 x 40		330 μF					
18 x 25		220 μF			68 μF	47 μF – 68 μF	
18 x 32		330 μF		100 μF	100 μF		47 μF
18 x 36	330 μF						68 μF
18 x 40	470 μF	470 μF	220 μF		150 μF	100 μF	
22 x 35						150 μF	

Aluminum Electrolytic (cont.)

ESH High CV, 6.3 – 500 VDC

Capacitance Range: 1 to 22,000 μF • Temperature Range: -40°C to $+105^{\circ}\text{C}$

Lifetime: 2,000 Hours

www.kemet.com/ESH



ESH	107	M	6R3		A	C3	AA
Series	Capacitance Code (μF)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	6R3 = 6.3 010 = 10 016 = 16 025 = 25 035 = 35 050 = 50 063 = 63 100 = 100	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	220 μF – 470 μF	150 μF – 220 μF	68 μF – 100 μF	68 μF – 100 μF	47 μF	22 μF – 33 μF	10 μF – 15 μF
8 x 11	680 μF	330 μF – 680 μF	330 μF – 470 μF	150 μF – 330 μF	150 μF	68 μF – 100 μF	47 μF	22 μF – 33 μF
8 x 15	1 mF	1 mF	680 μF	470 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	470 μF	220 μF	150 μF	68 μF
10 x 20	2.2 mF	1.5 mF – 2.2 mF	1.5 mF	1 mF	680 μF	330 μF – 470 μF	220 μF	100 μF
13 x 20	3.3 mF – 4.7 mF	3.3 mF	2.2 mF	1.5 mF	1 mF	470 μF – 680 μF	330 μF – 470 μF	150 μF
13 x 25		4.7 mF	3.3 mF	2.2 mF	1.5 mF	1 mF		220 μF
16 x 25	6.8 mF	6.8 mF	4.7 mF	3.3 mF	2.2 mF	1.5 mF	680 μF	330 μF
16 x 32	10 mF		6.8 mF	4.7 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		15 mF	10 mF	6.8 mF	4.7 mF	3.3 mF	2.2 mF	
18 x 40	22 mF							

Mid Power (200 – 500 V) Capacitors

Aluminum Electrolytic (cont.)

ESH High CV, 6.3 – 500 VDC (cont.)

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

Lifetime: 2,000 Hours

www.kemet.com/ESH



ESH	107	M	6R3		A	C3	AA
Series	Capacitance Code (μF)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	6R3 = 6.3 010 = 10 016 = 16 025 = 25 035 = 35 050 = 50 063 = 63 100 = 100	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	6.8 μF – 10 μF	4.7 μF – 6.8 μF	3.3 μF – 6.8 μF	2.2 μF – 4.7 μF	2.2 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 12.5	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	22 μF	15 μF	15 μF	10 μF	4.7 μF – 10 μF	6.8 μF	6.8 μF	
10 x 16								6.8 μF
10 x 20	33 μF – 47 μF	22 μF	22 μF		15 μF	10 μF	10 μF	8.2 μF – 10 μF
13 x 20	68 μF	33 μF – 47 μF	33 μF	22 μF	22 μF	15 μF	15 μF	10 μF
13 x 25	100 μF	68 μF	47 μF – 68 μF	33 μF	33 μF	22 μF	22 μF	15 μF – 22 μF
16 x 25	150 μF	100 μF	100 μF	47 μF	47 μF	33 μF – 47 μF	33 μF – 47 μF	22 μF
16 x 32	220 μF	150 μF	150 μF		68 μF	68 μF		47 μF
16 x 36		220 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	330 μF	220 μF		120 μF	100 μF	100 μF	68 μF
18 x 40	470 μF				150 μF	120 μF	120 μF	82 μF
18 x 45						150 μF	150 μF	

Aluminum Electrolytic (cont.)

ELH General Purpose, Low Impedance, 6.3 – 450 VDC

Capacitance Range: 47 to 120,000 μ F • Temperature Range: -40°C to +85°C and -25°C to +85°C

Lifetime: 2,000 Hours

www.kemet.com/ELH



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

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

Mid Power (200 – 500 V) Capacitors

Aluminum Electrolytic (cont.)

ELH General Purpose, Low Impedance, 6.3 – 450 VDC (cont.)

Capacitance Range: 47 to 120,000 μ F • Temperature Range: -40°C to +85°C and -25°C to +85°C

Lifetime: 2,000 Hours

www.kemet.com/ELH



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

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

Aluminum Electrolytic (cont.)

ELG General Purpose, Low ESR, 6.3 – 500 VDC

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

Lifetime: 2,000 Hours

www.kemet.com/ELG



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

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

Mid Power (200 – 500 V) Capacitors

Aluminum Electrolytic (cont.)

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

Capacitance Range: 47 to 82,000 μF • Temperature Range: -40°C to $+105^{\circ}\text{C}$ and -25°C to $+105^{\circ}\text{C}$

Lifetime: 2,000 Hours

www.kemet.com/ELG



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

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

Aluminum Electrolytic (cont.)

ELD General Purpose, 6.3 – 500 VDC

Capacitance Range: 47 to 68,000 μ F • Temperature Range: -40°C to +105°C and -25°C to +105°C

Lifetime: 3,000 Hours

www.kemet.com/ELD



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

Case Size	Voltage								
	10	16	25	35	50	63	80	100	160
22 x 25	10 mF	6.8 mF	3.9 mF	2.7 mF	1.5 mF	1.2 mF	820 μ F	560 μ F	270 μ F
22 x 30	12 mF	8.2 mF	4.7 mF – 5.6 mF	3.3 mF – 3.9 mF	1.8 mF – 2.2 mF	1.5 mF	1 mF	680 μ F – 820 μ F	330 μ F – 390 μ F
22 x 35	15 mF	10 mF	6.8 mF	4.7 mF	2.7 mF	1.8 mF	1.2 mF	1 mF	470 μ F
22 x 40	18 mF	12 mF	8.2 mF	5.6 mF	3.3 mF	2.2 mF	1.5 mF	1.2 mF	560 μ F
22 x 45	22 mF	15 mF	10 mF	6.8 mF	3.9 mF	2.7 mF	1.8 mF	1.5 mF	680 μ F
22 x 50		18 mF	12 mF	8.2 mF	4.7 mF				820 μ F
25 x 25	12 mF	8.2 mF	5.6 mF	4.7 mF	2.2 mF	1.5 mF	1.2 mF	820 μ F	390 μ F
25 x 30	15 mF – 0.018 F	10 mF – 0.012 F	6.8 mF	5.6 mF	2.7 mF – 3.3 mF	1.8 mF – 2.2 mF	1.5 mF	1 mF	470 μ F – 560 μ F
25 x 35	22 mF	15 mF	8.2 mF	6.8 mF	3.9 mF	2.7 mF	1.8 mF	1.2 mF	680 μ F
25 x 40	27 mF	18 mF	10 mF	8.2 mF	4.7 mF	3.3 mF	2.2 mF	1.5 mF	820 μ F
25 x 45	33 mF	22 mF	12 mF	10 mF	5.6 mF	3.9 mF	2.7 mF	1.8 mF	1 mF
25 x 50	39 mF		15 mF	12 mF		4.7 mF		2.2 mF	
30 x 25	15 mF	12 mF	8.2 mF	5.6 mF	3.3 mF	2.2 mF	1.5 mF	1.2 mF	560 μ F
30 x 30	18 mF – 0.022 F	15 mF – 0.018 F	10 mF	6.8 mF – 8.2 mF	3.9 mF – 4.7 mF	2.7 mF – 3.3 mF	1.8 mF – 2.2 mF	1.5 mF	680 μ F – 820 μ F
30 x 35	27 mF	22 mF	12 mF	10 mF	5.6 mF	3.9 mF	2.7 mF	1.8 mF	1 mF
30 x 40	33 mF	27 mF	15 mF	12 mF	6.8 mF	4.7 mF	3.3 mF	2.2 mF	1.2 mF
30 x 45	39 mF		18 mF	15 mF	8.2 mF	5.6 mF	3.9 mF	2.7 mF	
30 x 50		33 mF	22 mF			6.8 mF		3.3 mF	1.5 mF
35 x 25	22 mF	18 mF	12 mF	8.2 mF	4.7 mF	3.3 mF	2.2 mF	1.5 mF	820 μ F
35 x 30	27 mF – 0.033 F	22 mF	15 mF	10 mF – 0.012 F	5.6 mF – 6.8 mF	3.9 mF – 4.7 mF	2.7 mF	1.8 mF	1 mF
35 x 35	39 mF	27 mF	18 mF	15 mF	8.2 mF	5.6 mF	3.3 mF – 3.9 mF	2.2 mF – 2.7 mF	1.2 mF
35 x 40	47 mF	33 mF	22 mF	18 mF	10 mF	6.8 mF	4.7 mF	3.3 mF	1.5 mF
35 x 45	56 mF	39 mF	27 mF			8.2 mF		3.9 mF	1.8 mF
35 x 50	68 mF	47 mF		22 mF	12 mF		5.6 mF	4.7 mF	2.2 mF

Mid Power (200 – 500 V) Capacitors

Aluminum Electrolytic (cont.)

ELD General Purpose, 6.3 – 500 VDC (cont.)

Capacitance Range: 47 to 68,000 μF • Temperature Range: -40°C to $+105^{\circ}\text{C}$ and -25°C to $+105^{\circ}\text{C}$

Lifetime: 3,000 Hours

www.kemet.com/ELD



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

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

Aluminum Electrolytic (cont.)

EAK High Temperature and Long Life, 10 – 450 VDC

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

Lifetime: 5,000 Hours

www.kemet.com/EAK



EAK	227	M	010		A	G3	AA
Series	Capacitance Code (pF)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	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
8 x 11	220 μ F	220 μ F	100 μ F		47 μ F	47 μ F
8 x 16						
10 x 12		330 μ F				
10 x 12.5	330 μ F	330 μ F	220 μ F	100 μ F	100 μ F	
10 x 15						100 μ F
10 x 16	470 μ F		330 μ F	220 μ F		
10 x 20	1 mF	470 μ F	470 μ F	330 μ F	220 μ F	
10 x 25						
13 x 20		1 mF		470 μ F	330 μ F	220 μ F
13 x 25	2.2 mF		1 mF		470 μ F	330 μ F
13 x 30						
16 x 20						
16 x 25	3.3 mF	2.2 mF		1 mF		470 μ F
16 x 32	4.7 mF	3.3 mF	2.2 mF		1 mF	
18 x 32		4.7 mF				

Mid Power (200 – 500 V) Capacitors

Aluminum Electrolytic (cont.)

EAK High Temperature and Long Life, 10 – 450 VDC (cont.)

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

Lifetime: 5,000 Hours

www.kemet.com/EAK



EAK	227	M	010		A	G3	AA
Series	Capacitance Code (μ F)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm$ 20%	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					
	160	200	250	350	400	450
8 x 11	3.3 μ F	3.3 μ F	2.2 μ F	1 μ F		
8 x 16						1 μ F
10 x 12		4.7 μ F				
10 x 12.5	4.7 μ F	4.7 μ F	3.3 μ F	2.2 μ F	1 μ F	
10 x 15						
10 x 16	10 μ F		4.7 μ F	3.3 μ F	2.2 μ F – 3.3 μ F	2.2 μ F
10 x 20	22 μ F	10 μ F	10 μ F	4.7 μ F	4.7 μ F	3.3 μ F
10 x 25	33 μ F	22 μ F		10 μ F	10 μ F	4.7 μ F
13 x 20	47 μ F	33 μ F	22 μ F			10 μ F
13 x 25	68 μ F	47 μ F	33 μ F	22 μ F		
13 x 30					22 μ F	
16 x 20		68 μ F				
16 x 25	100 μ F	100 μ F	47 μ F	33 μ F	33 μ F	22 μ F
16 x 32	150 μ F		68 μ F	47 μ F	47 μ F	33 μ F

Aluminum Electrolytic (cont.)

PEG124 Very Long Life, 10 – 450 VDC

Capacitance Range: 1 to 4,700 μF • Temperature Range: -40°C to $+105^{\circ}\text{C}$ and -40°C to $+125^{\circ}\text{C}$

Lifetime: 27,500 Hours

www.kemet.com/PEG124



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

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

Mid Power (200 – 500 V) Capacitors

Aluminum Electrolytic (cont.)

ESL Long Life and High Reliability, 16 – 450 VDC

Capacitance Range: 0.47 to 6,800 μF • Temperature Range: -40°C to $+105^{\circ}\text{C}$

Lifetime: 10,000 Hours

www.kemet.com/ESL



ESL	106	M	016		A	C3	AA
Series	Capacitance Code (μF)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	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					
	16	25	35	50	63	100
5 x 11	10 μF – 100 μF	10 μF – 68 μF	10 μF – 47 μF	10 μF – 22 μF	470 nF – 15 μF	470 nF – 4.7 μF
6.3 x 11	120 μF – 220 μF	100 μF – 150 μF	56 μF – 100 μF	33 μF – 56 μF	18 μF – 33 μF	5.6 μF – 10 μF
8 x 11.5	270 μF – 470 μF	180 μF – 330 μF	120 μF – 180 μF	68 μF – 100 μF	39 μF – 68 μF	12 μF – 22 μF
8 x 12						
8 x 16	560 μF – 680 μF	390 μF	220 μF – 270 μF	120 μF – 150 μF	82 μF – 100 μF	27 μF – 33 μF
8 x 20	820 μF – 1 mF	560 μF	390 μF	220 μF	150 μF	68 μF
8 x 50						
10 x 12.5	560 μF – 680 μF	390 μF – 470 μF	220 μF – 330 μF		100 μF – 120 μF	27 μF – 56 μF
10 x 16	820 μF – 1 mF	560 μF – 680 μF	390 μF – 470 μF	180 μF – 220 μF	150 μF – 180 μF	82 μF
10 x 20	1.2 mF – 1.5 mF	820 μF	560 μF	270 μF	220 μF – 270 μF	100 μF
10 x 25	1.8 mF	1 mF	680 μF	330 μF – 390 μF	330 μF	120 μF
10 x 40						
10 x 50						
12.5 x 15	1.2 mF – 1.5 mF	820 μF	560 μF	270 μF	220 μF – 270 μF	100 μF
12.5 x 20	1.8 mF – 2.2 mF	1 mF – 1.5 mF	680 μF – 1 mF	390 μF – 470 μF	330 μF – 390 μF	150 μF
12.5 x 25	2.7 mF	1.8 mF	1.2 mF	560 μF	470 μF	180 μF – 220 μF
12.5 x 30	3.3 mF – 3.9 mF	2.2 mF	1.5 mF	680 μF – 820 μF	560 μF	270 μF
12.5 x 35	4.7 mF	2.7 mF	1.8 mF	1 mF	680 μF	330 μF
12.5 x 40		3.3 mF			820 μF	390 μF
12.5 x 50						
16 x 20	3.3 mF – 3.9 mF	2.2 mF	1.5 mF		560 μF	270 μF
16 x 25	4.7 mF	2.7 mF – 3.3 mF	1.8 mF – 2.2 mF	1 mF	680 μF – 820 μF	330 μF
16 x 30	5.6 mF – 6.8 mF	3.9 mF	2.7 mF	1.2 mF	1 mF – 1.2 mF	470 μF
16 x 35		4.7 mF		1.5 mF	1.5 mF	560 μF
16 x 40				1.8 mF	1.8 mF	680 μF
18 x 25	5.6 mF – 6.8 mF	3.9 mF	2.7 mF	1.2 mF – 1.5 mF	1.2 mF	
18 x 30		4.7 mF			1.5 mF	560 μF
18 x 35		5.6 mF	3.3 mF	1.8 mF – 2.2 mF		680 μF
18 x 40		6.8 mF	3.9 mF		2.2 mF	820 μF

Aluminum Electrolytic (cont.)

ESL Long Life and High Reliability, 16 – 450 VDC (cont.)

Capacitance Range: 0.47 to 6,800 μ F • Temperature Range: -40°C to +105°C

Lifetime: 10,000 Hours

www.kemet.com/ESL



ESL	106	M	016		A	C3	AA
Series	Capacitance Code (μ F)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm$ 20%	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					
	160	200	250	350	400	450
6.3 x 11	1.8 μ F – 3.9 μ F	2.2 μ F – 3.9 μ F	2.2 μ F – 3.3 μ F	1 μ F – 2.2 μ F	1 μ F – 1.8 μ F	1 μ F – 1.2 μ F
8 x 11.5	4.7 μ F – 8.2 μ F	4.7 μ F – 8.2 μ F	3.9 μ F – 6.8 μ F	2.7 μ F – 4.7 μ F	2.2 μ F – 4.7 μ F	1.5 μ F – 1.8 μ F
8 x 12		10 μ F	8.2 μ F			
8 x 16	10 μ F – 18 μ F	12 μ F – 15 μ F	10 μ F	5.6 μ F	4.7 μ F – 5.6 μ F	2.2 μ F – 3.9 μ F
8 x 20	22 μ F		15 μ F	8.2 μ F	6.8 μ F	4.7 μ F – 5.6 μ F
8 x 50	56 μ F	47 μ F	33 μ F	22 μ F	22 μ F	15 μ F
10 x 12.5	15 μ F		10 μ F	5.6 μ F – 6.8 μ F	5.6 μ F	
10 x 16	22 μ F – 27 μ F	18 μ F – 22 μ F	15 μ F – 18 μ F	8.2 μ F – 10 μ F	6.8 μ F – 8.2 μ F	4.7 μ F – 6.8 μ F
10 x 20	33 μ F	27 μ F	22 μ F		10 μ F	8.2 μ F
10 x 25	39 μ F – 47 μ F	33 μ F		15 μ F – 18 μ F		10 μ F
10 x 40						22 μ F
10 x 50	100 μ F	56 μ F	68 μ F	33 μ F	33 μ F	33 μ F
12.5 x 15	33 μ F – 39 μ F			15 μ F		
12.5 x 20	47 μ F – 68 μ F	39 μ F – 47 μ F	33 μ F	18 μ F – 22 μ F	15 μ F – 18 μ F	10 μ F – 15 μ F
12.5 x 25	82 μ F	56 μ F	47 μ F	33 μ F	22 μ F	18 μ F
12.5 x 30		68 μ F	56 μ F – 68 μ F			
12.5 x 35						
12.5 x 40						
12.5 x 50	150 μ F		100 μ F	68 μ F	56 μ F	47 μ F
16 x 20	100 μ F					22 μ F
16 x 25	120 μ F	82 μ F – 100 μ F		47 μ F	33 μ F	33 μ F
16 x 30	150 μ F – 180 μ F	120 μ F	82 μ F – 100 μ F	56 μ F	56 μ F	
16 x 35		150 μ F				47 μ F – 56 μ F
16 x 40					82 μ F	
18 x 25				68 μ F	47 μ F	
18 x 30	220 μ F	180 μ F	120 μ F – 150 μ F	82 μ F	68 μ F	
18 x 35	270 μ F	220 μ F	180 μ F	100 μ F – 120 μ F	82 μ F	68 μ F
18 x 40	330 μ F		220 μ F		100 μ F	82 μ F

Mid Power (200 – 500 V) Capacitors

Aluminum Electrolytic (cont.)

ALC40 Long Life and High Ripple Current, 25 – 500 VDC

Capacitance Range: 47 to 120,000 μF • Temperature Range: -40°C to $+105^{\circ}\text{C}$

Lifetime: 9,000 Hours

www.kemet.com/ALC40



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

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

Aluminum Electrolytic (cont.)

ESZ Long Life and High Reliability, 160 – 450 VDC

Capacitance Range: 3.3 to 330 μF • Temperature Range: -40°C to $+105^{\circ}\text{C}$

Lifetime: 10,000 Hours

www.kemet.com/ESZ



ESZ	336	M	160	A	H4	AA
Series	Capacitance Code (μF)	Tolerance	Rated Voltage (VDC)	Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	$M = \pm 20\%$	160 = 160 200 = 200 400 = 400 450 = 450	A = Standard	See Dimension Table	See Ordering Options Table

Case Size	Voltage			
	160	200	400	450
10 x 16				3.3 μF
10 x 20	33 μF – 47 μF	22 μF – 33 μF	6.8 μF – 10 μF	4.7 μF – 6.8 μF
12.5 x 20	47 μF	33 μF		6.8 μF – 10 μF
13 x 20		47 μF		
13 x 25	68 μF – 100 μF	68 μF		
16 x 20	68 μF – 100 μF	68 μF	22 μF	
16 x 25	100 μF – 150 μF	100 μF	33 μF	22 μF
16 x 32	150 μF – 220 μF	150 μF	47 μF	33 μF
16 x 36				47 μF
18 x 20	100 μF			22 μF
18 x 25	150 μF – 220 μF			33 μF
18 x 32			68 μF	47 μF
18 x 36	330 μF			

Mid Power (200 – 500 V) Capacitors

Aluminum Electrolytic (cont.)

ESU Long Life and High Reliability, 160 – 450 VDC

Capacitance Range: 6.3 to 330 μF • Temperature Range: -40°C to $+105^{\circ}\text{C}$

Lifetime: 12,000 Hours

www.kemet.com/ESU



ESU	336	M	160	A	H8	AA
Series	Capacitance Code (μF)	Tolerance	Rated Voltage (VDC)	Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	160 = 160 200 = 200 250 = 250 350 = 350 400 = 400 450 = 450	A = Standard	See Dimension Table	See Ordering Options Table

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

Aluminum Electrolytic (cont.)

ESG High Ripple Current and Long Life, 160 – 450 VDC

Capacitance Range: 3.3 to 330 μ F • Temperature Range: -40°C to +105°C

Lifetime: 3,000 – 5,000 Hours

www.kemet.com/ESG



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

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

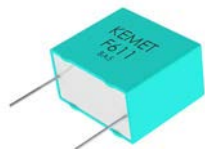
Mid Power (200 – 500 V) Capacitors

Film

F611 and F612 Metallized Polyester, 5 – 37.5 mm Lead Spacing, 50 – 1,000 VDC

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

www.kemet.com/F611



F	611	J	F	104	M	050	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging
F = Film	Metallized Polyester 611 = Wound 612 = Stacked	J = 5 K = 7.5 A = 10.0 B = 15.0 D = 22.5 F = 27.5 R = 37.5	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	J = $\pm$ 5% K = $\pm$ 10% M = $\pm$ 20%	050 = 50 063 = 63 100 = 100 160 = 160 250 = 250 400 = 400 630 = 630 1K0 = 1,000	See Ordering Options Table

F611

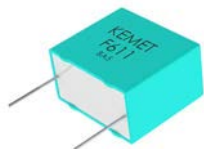
Case Size	Voltage (VDC/VAC)							
	50/30	63/40	100/63	160/90	250/160	400/200	630/220	1,000/250
5 – 7.2 x 10 x 5	1.8 μ F – 2.2 μ F						22 nF	6.8 nF
5 – 7.2 x 11 x 6	2.7 μ F – 3.3 μ F						27 nF – 33 nF	8.2 nF – 12 nF
5 – 7.2 x 13 x 7.2	3.9 μ F – 6 μ F						39 nF – 47 nF	15 nF
5 – 7.2 x 6.5 x 2.5	270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

Film (cont.)

F611 and F612 Metallized Polyester, 5 – 37.5 mm Lead Spacing, 50 – 1,000 VDC

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

www.kemet.com/F611



F	611	J	F	104	M	050	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (μ F)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging
F = Film	Metallized Polyester 611 = Wound 612 = Stacked	J = 5 K = 7.5 A = 10.0 B = 15.0 D = 22.5 F = 27.5 R = 37.5	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	J = $\pm$ 5% K = $\pm$ 10% M = $\pm$ 20%	050 = 50 063 = 63 100 = 100 160 = 160 250 = 250 400 = 400 630 = 630 1K0 = 1,000	See Ordering Options Table

F611 (cont.)

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

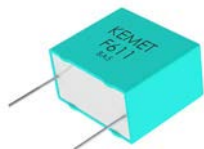
Mid Power (200 – 500 V) Capacitors

Film (cont.)

F611 and F612 Metallized Polyester, 5 – 37.5 mm Lead Spacing, 50 – 1,000 VDC

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

www.kemet.com/F611



F	611	J	F	104	M	050	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Packaging
F = Film	Metallized Polyester 611 = Wound 612 = Stacked	J = 5 K = 7.5 A = 10.0 B = 15.0 D = 22.5 F = 27.5 R = 37.5	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	050 = 50 063 = 63 100 = 100 160 = 160 250 = 250 400 = 400 630 = 630 1K0 = 1,000	See Ordering Options Table

F612

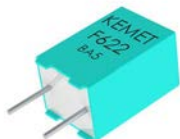
Case Size	Voltage (VDC/VAC)						
	63/40	100/63	160/90	250/140	250/160	400/160	400/200
5 – 7.2 x 10 x 5	1 μ F	560 nF – 680 nF		150 nF	82 nF – 100 nF	47 nF	27 nF – 33 nF
5 – 7.2 x 11 x 6	1.2 μ F – 1.5 μ F	820 nF – 1 μ F		180 nF – 220 nF	120 nF – 150 nF	68 nF	39 nF – 56 nF
5 – 7.2 x 6.5 x 2.5	100 nF – 220 nF	1 nF – 120 nF		22 nF – 27 nF	6.8 nF – 18 nF	6.8 nF – 8.2 nF	1 nF – 4.7 nF
5 – 7.2 x 7.5 x 3.5	270 nF – 470 nF	150 nF – 270 nF		47 nF – 68 nF	22 nF – 39 nF	15 nF – 18 nF	5.6 nF – 82 nF
5 – 7.2 x 9.5 x 4.5	560 nF – 820 nF	330 nF – 470 nF		82 nF – 120 nF	47 nF – 68 nF	33 nF – 39 nF	15 nF – 22 nF
7.5 – 10 x 10.5 x 5	1.2 μ F – 1.5 μ F	820 nF – 1 μ F			180 nF – 220 nF		68 nF – 82 nF
7.5 – 10 x 8 x 3	330 nF – 470 nF	68 nF – 220 nF			22 nF – 68 nF		6.8 nF – 27 nF
7.5 – 10 x 9 x 4	560 nF – 1 μ F	270 nF – 680 nF			82 nF – 150 nF		33 nF – 56 nF
7.5 – 10.5 x 12 x 6	1.8 μ F – 3.3 μ F	1.5 μ F – 1.8 μ F			270 nF – 390 nF		100 nF – 150 nF
10 – 13 x 11 x 5	1.5 μ F – 2.7 μ F	1 μ F – 1.5 μ F	390 nF – 560 nF				
10 – 13 x 12 x 6	3.3 μ F – 3.9 μ F	1.8 μ F	680 nF – 820 nF				
10 – 13 x 9 x 4	1 μ F – 1.2 μ F	330 nF – 820 nF	180 nF – 330 nF				

Film (cont.)

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

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

www.kemet.com/F622



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

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

Mid Power (200 – 500 V) Capacitors

Film (cont.)

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

Capacitance Range: 0.22 to 60 μF • Temperature Range: -40°C to +85°C

www.kemet.com/C4AT



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

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

Film (cont.)

C4BT Radial Power Film, Box, IGBT Direct Mount, 250 – 850 VDC/160 – 450 VAC

Capacitance Range: 10 to 60 μF • Temperature Range: -40°C to +85°C

www.kemet.com/C4BT



C4	BT	F	B	X	4330	Z	E	E	J
Series	Type	Rated Voltage (VDC)	Case	Number of Leads	Capacitance Code (pF)	Internal Code	Termination Style	Size Code	Tolerance
C4 = MKP Capacitors for Power Applications	BT = Radial box with tab terminals, switching application	F = 400 M = 850	B = Plastic box with epoxy resin sealing	X = Standard	Digits 2 – 4 indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added.	Z = Standard	A = Style A E = Style E	See Dimension Table	J = 5% K = 10%

Case Size	Voltage (VDC/VAC)	
	400/250	850/450
32 x 33 x 18	3.3 μF – 5 μF	1 μF
41.5 x 40 x 20	4 μF – 10 μF	1 μF – 3 μF
42 x 44 x 24		4 μF
42 x 45 x 30	20 μF – 30 μF	5 μF
42.5 x 37 x 28	12.5 μF – 15 μF	
57 x 50 x 35		10 μF
57.5 x 50 x 35	35 μF – 40 μF	8 μF

High Power (≥ 500 V) Capacitors

High Power (≥ 500 V) Capacitors

Aluminum Electrolytic

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

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

Lifetime: 20,000 Hours

www.kemet.com/ALS30-31



ALS3	0	A	153	DA	025	
Series	Stud Option	Termination	Capacitance Code (μ F)	Size Code	Rated Voltage (VDC)	
Screw Terminal Aluminum Electrolytic	0 = Plain Can 1 = Threaded mounting stud	See Termination Table	First two digits represent significant figures. Third digit specifies number of zeros.	See Dimension Table	025 = 25 040 = 40 063 = 63 100 = 100 200 = 200 250 = 250	350 = 350 400 = 400 415 = 415 450 = 450 500 = 500

Case Size	Voltage						
	25	40	63	100	200	250	350
36 x 52	15 mF	10 mF	4.7 mF	2.2 mF	470 μ F	470 μ F	330 μ F
36 x 62	22 mF	15 mF	6.8 mF	3.3 mF	680 μ F	680 μ F	
36 x 82	33 mF	22 mF	10 mF	4.7 mF	1 mF	1 mF	470 μ F
36 x 105	47 mF		15 mF	6.8 mF	1.5 mF		680 μ F
51 x 82	68 mF	33 mF – 0.047 F	15 mF – 0.022 F	10 mF	2.2 mF	1.5 mF – 2.2 mF	1 mF
51 x 105	100 mF	68 mF	33 mF	15 mF	3.3 mF	3.3 mF	1.5 mF – 2.2 mF
63.5 x 105							
66 x 105	150 mF	100 mF	47 mF	22 mF	4.7 mF – 6.8 mF	4.7 mF	2.2 mF – 3.3 mF
77 x 75	150 mF	100 mF	47 mF	22 mF	4.7 mF	3.3 mF	2.2 mF
77 x 105	220 mF	150 mF	68 mF	33 mF	10 mF	6.8 mF	4.7 mF
77 x 115							
77 x 146	330 mF	220 mF	100 mF	47 mF	15 mF	10 mF	6.8 mF
77 x 220	470 mF	330 mF	150 mF	68 mF	22 mF	15 mF – 0.022 F	10 mF
90 x 67	220 mF	100 mF	68 mF	22 mF	6.8 mF	6.8 mF	3.3 mF
90 x 75	220 mF	100 mF	47 mF	22 mF	6.8 mF	4.7 mF	3.3 mF
90 x 98	330 mF	150 mF	68 mF	33 mF	10 mF	10 mF	4.7 mF
90 x 146	470 mF	220 mF	150 mF	68 mF	22 mF	15 mF	6.8 mF
90 x 220	680 mF	470 mF	220 mF	100 mF	33 mF	22 mF	15 mF

Aluminum Electrolytic (cont.)

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

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

Lifetime: 20,000 Hours

www.kemet.com/ALS30-31



ALS3	0	A	153	DA	025	
Series	Stud Option	Termination	Capacitance Code (μ F)	Size Code	Rated Voltage (VDC)	
Screw Terminal Aluminum Electrolytic	0 = Plain Can 1 = Threaded mounting stud	See Termination Table	First two digits represent significant figures. Third digit specifies number of zeros.	See Dimension Table	025 = 25 040 = 40 063 = 63 100 = 100 200 = 200 250 = 250	350 = 350 400 = 400 415 = 415 450 = 450 500 = 500

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

High Power (≥ 500 V) Capacitors

Aluminum Electrolytic (cont.)

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

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

Lifetime: 20,000 Hours

www.kemet.com/ALS32-33



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

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

Aluminum Electrolytic (cont.)

ALS36/37 High CV Value and Long Life 85°C, 25 – 500 VDC

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

Lifetime: 20,000 Hours

www.kemet.com/ALS36-37



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

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

High Power (≥ 500 V) Capacitors

Aluminum Electrolytic (cont.)

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

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

Lifetime: 9,000 Hours

www.kemet.com/ALS40-41



ALS4	0	A	153	DA	025	
Series	Stud Option	Termination	Capacitance Code (μF)	Size Code	Rated Voltage (VDC)	
Screw Terminal Aluminum Electrolytic	0 = Plain Can 1 = Threaded mounting stud	See Termination Table	First two digits represent significant figures. Third digit specifies number of zeros.	See Dimension Table	025 = 25 040 = 40 063 = 63 100 = 100 160 = 160 200 = 200	250 = 250 350 = 350 400 = 400 415 = 415 450 = 450 500 = 500

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

Aluminum Electrolytic (cont.)

ALS42/43 High CV Value and Long Life 105°C, 350 – 450 VDC (Asian Market)

Capacitance Range: 1,000 to 15,000 μ F • Temperature Range: -40°C to +105°C

Lifetime: 9,000 Hours

www.kemet.com/ALS42-43



ALS4	2	A	102	K3C	350
Series	Stud Option	Termination	Capacitance Code (μ F)	Size Code	Rated Voltage (VDC)
Screw Terminal Aluminum Electrolytic	2 = Plain Can 3 = Threaded mounting stud	See Termination Table	First two digits represent significant figures. Third digit specifies number of zeros.	See Dimension Table	350 = 350 400 = 400 415 = 415 450 = 450

Case Size	Voltage			
	350	400	415	450
50.8 x 79.4	1 mF – 1.2 mF	1 mF	1 mF	
50.8 x 92.1	1.5 mF – 1.8 mF	1.2 mF	1.2 mF	1 mF
50.8 x 114.3		1.5 mF	1.5 mF	1.2 mF
50.8 x 130.2	2.2 mF	1.8 mF	1.8 mF	1.5 mF
63.5 x 92.1	2.7 mF	2.2 mF	2.2 mF	1.8 mF
63.5 x 114.3	3.3 mF	2.7 mF	2.7 mF	2.2 mF
63.5 x 130.2	3.9 mF	3.3 mF		2.7 mF
63.5 x 149.2	4.7 mF	3.9 mF	3.9 mF	3.3 mF
63.5 x 193.7	5.6 mF	4.7 mF – 5.6 mF	4.7 mF – 5.6 mF	3.9 mF
76.2 x 114.3	4.7 mF	3.9 mF	3.9 mF	2.7 mF
76.2 x 130.2	5.6 mF	4.7 mF	4.7 mF	3.3 mF
76.2 x 149.2	6.8 mF	5.6 mF	5.6 mF	4.7 mF
76.2 x 193.7				5.6 mF
88.9 x 149.2	8.2 mF – 0.01 F	6.8 mF – 8.2 mF	6.8 mF – 8.2 mF	5.6 mF
88.9 x 193.7	12 mF	10 mF	10 mF	6.8 mF – 8.2 mF
88.9 x 219.1	15 mF	12 mF	12 mF	10 mF

High Power (≥ 500 V) Capacitors

Aluminum Electrolytic (cont.)

ALS60/61 High CV Value and Long Life 85°C, 550 VDC

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

Lifetime: 20,000 Hours

www.kemet.com/ALS60-61



ALS6	0	A	561	KE	550
Series	Stud Option	Termination	Capacitance Code (μ F)	Size Code	Rated Voltage (VDC)
Screw Terminal Aluminum Electrolytic	0 = Plain Can 1 = Threaded mounting stud	See Termination Table	First two digits represent significant figures. Third digit specifies number of zeros.	See Dimension Table	550 = 550

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

Aluminum Electrolytic (cont.)

PEH200 Long Life 85°C, 25 – 500 VDC

Capacitance Range: 100 to 330,000 μ F • **Temperature Range:** -40°C to +85°C

Lifetime: 29,000 Hours

www.kemet.com/PEH200



PEH200	H		A	515	0	M	U2
Series	Rated Voltage (VDC)		Size Code	Capacitance Code (μ F)	Version	Capacitance Tolerance	Stud Option
Screw Terminal Aluminum Electrolytic	H = 25 K = 40 M = 63 P = 100 S = 250 U = 350	X = 385 V = 400 O = 420 Y = 450 Z = 500	See Dimension table	The last two digits represent significant figures. The first digit specifies the total number of digits.	0 = Standard	M = $\pm 20\%$	U2 = Plain Can B2 = Threaded mounting stud

Case Size	Voltage					
	25	40	63	100	250	350
36.6 x 51.5	15 mF	6.8 mF	4.7 mF	1.5 mF	330 μ F	220 μ F
36.6 x 59.5		10 mF		2.2 mF	470 μ F	330 μ F
36.6 x 73.5	22 mF	15 mF	6.8 mF	3.3 mF	680 μ F	470 μ F
36.6 x 94.5	33 mF	22 mF	10 mF	4.7 mF	1 mF	680 μ F
51.6 x 48.5					1 mF	680 μ F
51.6 x 74.5	47 mF	33 mF	15 mF	6.8 mF	1.5 mF	1 mF
51.6 x 95.5	68 mF	47 mF	22 mF	10 mF	2.2 mF	1.5 mF
51.6 x 103.5	100 mF			15 mF		
66.6 x 106	150 mF	68 mF – 0.1 F	33 mF – 0.047 F	22 mF	3.3 mF – 4.7 mF	2.2 mF – 3.3 mF
76.6 x 77					3.3 mF	2.2 mF
76.6 x 106	220 mF			33 mF	6.8 mF	
76.6 x 118		150 mF	68 mF			4.7 mF
76.6 x 146	330 mF	220 mF	100 mF	47 mF	10 mF – 0.012 F	6.8 mF
76.6 x 221					15 mF	10 mF
91.6 x 76.5					4.7 mF	3.3 mF
91.6 x 97.5					6.8 mF	4.7 mF
91.6 x 145.5					15 mF	10 mF
91.6 x 220						15 mF

High Power (≥ 500 V) Capacitors

Aluminum Electrolytic (cont.)

PEH200 Long Life 85°C, 25 – 500 VDC

Capacitance Range: 100 to 330,000 μF • **Temperature Range:** -40°C to +85°C

Lifetime: 29,000 Hours

www.kemet.com/PEH200



PEH200	H		A	515	0	M	U2
Series	Rated Voltage (VDC)		Size Code	Capacitance Code (μF)	Version	Capacitance Tolerance	Stud Option
Screw Terminal Aluminum Electrolytic	H = 25 K = 40 M = 63 P = 100 S = 250 U = 350	X = 385 V = 400 O = 420 Y = 450 Z = 500	See Dimension table	The last two digits represent significant figures. The first digit specifies the total number of digits.	0 = Standard	M = $\pm 20\%$	U2 = Plain Can B2 = Threaded mounting stud

Case Size	Voltage				
	385	400	420	450	500
36.6 x 51.5	220 μF	220 μF	150 μF	150 μF	100 μF
36.6 x 59.5					150 μF
36.6 x 73.5	330 μF	330 μF	220 μF	220 μF	220 μF
36.6 x 94.5	470 μF	470 μF	330 μF	330 μF	330 μF
51.6 x 48.5	470 μF	470 μF	330 μF	330 μF	220 μF
51.6 x 74.5	680 μF	680 μF	470 μF	470 μF	470 μF
51.6 x 95.5	1 mF	1 mF	680 μF	680 μF	680 μF
51.6 x 103.5	1.5 mF		1 mF	1 mF	
66.6 x 106	2.2 mF	1.5 mF – 3.3 mF	1.5 mF – 2.7 mF	1.5 mF – 1.8 mF	1 mF – 1.8 mF
76.6 x 77	2.2 mF	1.5 mF	1.5 mF	1.5 mF	
76.6 x 106	3.3 mF	3.3 mF	2.2 mF	2.2 mF	1.5 mF
76.6 x 118		3.3 mF			
76.6 x 146	4.7 mF	4.7 mF	3.3 mF	3.3 mF	2.2 mF
76.6 x 221	6.8 mF	6.8 mF	4.7 mF	4.7 mF	3.3 mF
91.6 x 76.5	3.3 mF	2.2 mF	2.2 mF	2.2 mF	
91.6 x 97.5	4.7 mF	3.3 mF	3.3 mF	3.3 mF	
91.6 x 145.5	6.8 mF	6.8 mF	4.7 mF	4.7 mF	3.3 mF
91.6 x 220		10 mF	8.2 mF	8.2 mF	5.6 mF

Film

C4AE Radial, 2 or 4 Leads, 450 – 1,100 VDC

Capacitance Range: 1 to 100 μF • Temperature Range: -40°C to $+105^{\circ}\text{C}$

www.kemet.com/C4AE



C4	A	E	Q	B	W	5270	A	3	N	J
Series	Type	Application	Rated Voltage (VDC)	Case	Terminals Code	Capacitance Code (pF)	C-Spec	Lead Diameter (mm)	Size Code B x H x L (mm)	Tolerance
C4 = MKP Power Capacitors	A = Box, Wire Terminals	E = DC Link	G = 450 H = 600 J = 700 O = 900 Q = 1,100	B = Box, Plastic Case	U = 2 pins W = 4 pins	Digits 2 – 4 indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added.	A = Standard Grade	A1 = 0.8 A2 = 1.0 A3 = 1.2	W = 11 x 20 x 31.5 X = 13 x 25 x 31.5 Y = 14 x 28 x 31.5 1 = 19 x 29 x 31.5 2 = 22 x 37 x 31.5 F = 20 x 40 x 42 J = 28 x 37 x 42 L = 30 x 45 x 42 M = 30 x 45 x 57.5 N = 35 x 50 x 57.5	J = 5% K = 10%

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

High Power (≥ 500 V) Capacitors

Film (cont.)

C44A Screw Terminal, 100 – 1,500 VDC/250 – 63 VAC

Capacitance Range: 15 to 330 μ F • Temperature Range: -40°C to $+85^{\circ}\text{C}$

www.kemet.com/C44A



C44A	F	F	P	5150	ZA0	J
Series	Rated Voltage (VDC)	Case & Fixing Bolt Code	Terminal Style	Capacitance Code (μ F)	Internal Code	Tolerance
C44A = MKP, General Purpose	F = 400 H = 600 J = 700 M = 850 P = 1,200 S = 1,500	F = Cylindrical aluminum case with M8 bolt G = Cylindrical aluminum case with M12 bolt	P = M6 Threaded posts R = M10 Threaded posts Q = M8 Threaded posts (on request) 2 = Simple faston 6.3 x 0.8 mm (on request) 3 = Double faston 6.3 x 0.8 mm (on request)	Digits 2 – 4 indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added.	ZA0, ZB0, ZC0, ZD0, ZE0, ZF0, ZG0, ZH0 = Standard	J = 5% K = 10%

Case Size	Voltage (VDC/VAC)					
	400/250	600/330	700/400	850/450	1,200/500	1,500/630
45 x 80	15 μ F – 25 μ F	10 μ F	5 μ F – 7.5 μ F	3 μ F – 6 μ F	1 μ F – 2.5 μ F	1 μ F
45 x 101		20 μ F				
45 x 105		15 μ F		8 μ F		
50 x 76					3 μ F	2 μ F
50 x 101	30 μ F – 50 μ F	22 μ F – 30 μ F	10 μ F – 20 μ F	10 μ F	4 μ F – 5 μ F	3 μ F
50 x 138					5 μ F – 7.5 μ F	
55 x 101		33 μ F	22 μ F		6 μ F	
55 x 138		50 μ F		22 μ F – 25 μ F	8 μ F – 10 μ F	
60 x 101	60 μ F – 75 μ F	40 μ F	25 μ F	15 μ F	6.8 μ F	4 μ F
60 x 138	100 μ F	60 μ F	30 μ F			
65 x 101				20 μ F		5 μ F
65 x 135		80 μ F				
65 x 138	130 μ F	70 μ F – 75 μ F	40 μ F – 50 μ F	30 μ F – 35 μ F		7.5 μ F
65 x 158					10 μ F	
70 x 138	150 μ F					10 μ F
76 x 135		100 μ F				
76 x 138	200 μ F		60 μ F – 70 μ F	40 μ F – 50 μ F	15 μ F	
76 x 200					22 μ F	
85 x 137			75 μ F	60 μ F	20 μ F	12 μ F – 15 μ F
85 x 138		100 μ F				
85 x 150	250 μ F					
85 x 185	300 μ F – 330 μ F		100 μ F			

Film (cont.)

C44U Screw Terminal, 700 – 1,300 VDC

Capacitance Range: 50 to 600 μF • Temperature Range: -40°C to $+85^{\circ}\text{C}$

www.kemet.com/C44U



C4	4	U	Q	G	T	6	5	0	0	F	8	S	K
Series			DC Voltage	Case and Fixing	Terminals Code	Capacitance Code (pF)				Variants	Case Diameter	Film Type	Tolerance
C4 = MKP Capacitors for Power Applications	4 = Cylindrical types	U = DC link	H = 600 V J = 700 V O = 900 V Q = 1,100 V U = 1,300 V	G = Cylindrical case with threaded bolt M12 E = Cylindrical case without threaded bolt	T = M6 female terminals Q = M8 male terminals Y = M8 female terminals	Digits 9, 10 and 11 indicate the first three digits of capacitance value. Digit 8 indicates the number of zeros to be added.				A = 85°C Hot Spot temperature series F/G = 70°C Hot Spot temperature series	7 = 76 mm 8 = 85 mm	T = Standard film S = Segmented film	J = 5% K = 10%

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

High Power (≥ 500 V) Capacitors

Film (cont.)

C44P/C20A Screw Terminal for PFC and AC Filter, 400 – 1,400 VDC/250 – 1,000 VAC

Capacitance Range: 10 to 600 μ F • Temperature Range: -40°C to +80°C

www.kemet.com/C44P



C	44	P	L		G	R	6	1	0	0	A	A	S	J
Series		Application	Rated Voltage (VAC)		Case Type	Terminal Style	Capacitance Code (pF)				Internal Code	Internal Codes		Tolerance
MKP Capacitors for Power Applications	44 = 330 – 440 VAC 20 = 550 – 1,000 VAC	AC Filter P = C44 A = C20	For C44P: L = 330 K = 440	For C20A: K = 550 L = 640 Q = 780 Z = 1000	G = M12 bolt	R = Male M10	Digits 9 – 11 indicate the first three digits of capacitance value. Digit 8 indicates the number of zeros that must be added to obtain rated capacitance in pF.				A = Standard Z = Special			J = 5% K = 10%

C44P

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

C20A

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

Ceramic

ESD, C0G Dielectric, 25 – 200 VDC (Commercial and Automotive Grade)

Capacitance Range: 1 to 15 nF • Temperature Range: -55°C to +125°C

www.kemet.com/ESD-C0G



C	0603	C	104	J	3	R	E	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	C = Standard X = Flexible Termination	Two significant digits and number of zeros	F = $\pm 1\%$ G = $\pm 2\%$ J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	3 = 25 5 = 50 M = 63 1 = 100 2 = 200	G = C0G	E = ESD	C = 100% Matte Sn	See "Packaging C-Spec Ordering Options Table" below

Case Size	Voltage				
	25	50	63	100	200
0603	1 nF – 0.015 μ F	1 nF – 6.8 nF	1 nF – 4.7 nF	1 nF – 4.7 nF	1 nF – 2.2 nF

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