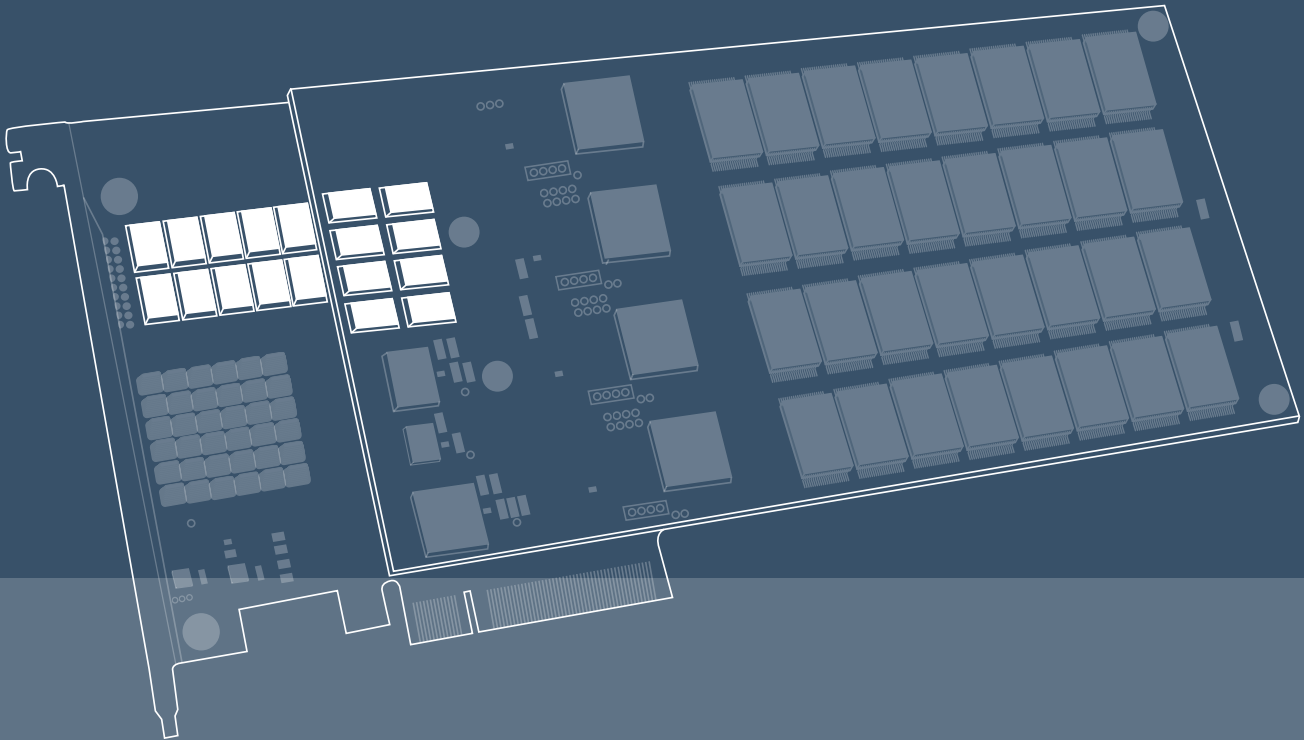

Capacitor Selection Guide

Solid State Drives



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Capacitor Simulation Tool

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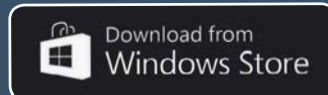


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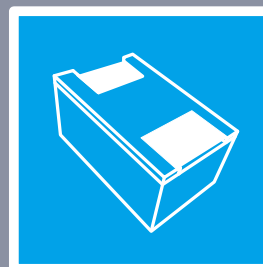
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Aluminum Capacitors

Radial Aluminum Electrolytic

ESK General Purpose 85°C, 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 (pF)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Single-Ended Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = ±20%	6R3 = 6.3 010 = 10 016 = 16 025 = 25 035 = 35 050 = 50 063 = 63	100 = 100 160 = 160 200 = 200 250 = 250 350 = 350 400 = 400 450 = 450 500 = 500	A = Standard	See Dimension Table	See Ordering Options Table

Case Size	Voltage							
	6.3	10	16	25	35	50	63	100
5 x 11	22 µF – 220 µF	4.7 µF – 220 µF	1 µF – 100 µF	4.7 µF – 68 µF	4.7 µF – 47 µF	1 µF – 33 µF	1 µF – 22 µF	1 µF – 10 µF
6.3 x 11	220 µF – 470 µF	220 µF – 470 µF	100 µF – 330 µF	100 µF	47 µF – 100 µF	33 µF – 47 µF	22 µF – 47 µF	10 µF – 22 µF
8 x 11	330 µF – 1 mF	330 µF – 680 µF	220 µF – 470 µF	220 µF – 330 µF	100 µF – 220 µF	47 µF – 120 µF	33 µF – 100 µF	22 µF – 33 µF
8 x 15		680 µF		330 µF – 470 µF				
10 x 12.5	1 mF	1 mF	680 µF	470 µF	330 µF	220 µF	100 µF	47 µF
10 x 15		680 µF – 1 mF	680 µF – 1 mF	330 µF – 680 µF	330 µF – 470 µF	220 µF – 330 µF	220 µF	47 µF – 68 µF
10 x 20	2.2 mF – 3.3 mF	2.2 mF	1 mF	1 mF	470 µF – 680 µF	330 µF – 470 µF	220 µF – 330 µF	100 µF
13 x 16				1 mF				
13 x 20	2.2 mF – 4.7 mF	2.2 mF – 3.3 mF	2.2 mF	1 mF	470 µF – 1 mF	470 µF	330 µF – 470 µF	150 µF
13 x 25	6.8 mF	3.3 mF – 4.7 mF	2.2 mF – 3.3 mF	2.2 mF	1 mF	1 mF	470 µF – 680 µF	220 µF – 330 µF
16 x 25	4.7 mF – 0.01 F	4.7 mF – 6.8 mF	3.3 mF – 4.7 mF	2.2 mF – 3.3 mF	2.2 mF	1 mF	1 mF	330 µF – 470 µF
16 x 32	10 mF	6.8 mF	4.7 mF – 6.8 mF	3.3 mF – 4.7 mF	2.2 mF	2.2 mF	1 mF	
16 x 36	15 mF	10 mF	6.8 mF		3.3 mF – 4.7 mF	2.2 mF		680 µF
18 x 32		10 mF			3.3 mF	2.2 mF		
18 x 36	15 mF	10 mF – 0.015 F	6.8 mF – 0.01 F	4.7 mF – 6.8 mF	3.3 mF – 4.7 mF	2.2 mF – 3.3 mF	2.2 mF	
18 x 40	22 mF					3.3 mF	2.2 mF	1 mF
22 x 35						4.7 mF		
22 x 40		22 mF	15 mF – 0.022 F	10 mF – 0.015 F	6.8 mF	4.7 mF	3.3 mF	2.2 mF

Radial Aluminum Electrolytic (cont.)

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

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

Lifetime: 2,000 Hours

www.kemet.com/ESK



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

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

Radial Aluminum Electrolytic (cont.)

ESH High CV 105°C, 6.3 – 500 VDC

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

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

Radial Aluminum Electrolytic (cont.)

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

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

Lifetime: 2,000 Hours

www.kemet.com/ESH



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

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

Radial Aluminum Electrolytic (cont.)

ESC Low ESR 105°C, 6.3 – 100 VDC

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

Lifetime: 3,000 Hours

www.kemet.com/ESC



ESC	157	M	6R3		A	C3	AA
Series	Capacitance Code (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 μF	100 μF – 120 μF	56 μF – 100 μF	10 μF – 56 μF	4.7 μF – 33 μF	1 μF – 22 μF	4.7 μF – 15 μF	4.7 μF – 6.8 μF
6.3 x 11	220 μF – 470 μF	150 μF – 220 μF	120 μF – 150 μF	68 μF – 100 μF	47 μF – 100 μF	33 μF – 47 μF	22 μF – 33 μF	10 μF – 15 μF
8 x 11	330 μF – 1 mF	330 μF – 680 μF	220 μF – 330 μF	120 μF – 220 μF	100 μF – 120 μF	68 μF – 100 μF	47 μF – 68 μF	22 μF
8 x 15	680 μF – 1.5 mF	470 μF	330 μF – 470 μF	220 μF – 330 μF	150 μF – 220 μF	100 μF		33 μF
8 x 20	820 μF – 1.5 mF	1 mF		330 μF – 470 μF	220 μF	120 μF	100 μF	
10 x 12		470 μF – 680 μF	470 μF		220 μF	150 μF		
10 x 12.5	1 mF	680 μF – 1 mF	330 μF – 470 μF	470 μF	220 μF	150 μF		
10 x 15	1.2 mF	820 μF	680 μF	470 μF		220 μF	120 μF – 150 μF	47 μF
10 x 16	1.2 mF – 1.5 mF	820 μF – 1 mF	680 μF – 1 mF	330 μF – 470 μF	330 μF	220 μF	120 μF – 150 μF	47 μF
10 x 20	1.5 mF – 2.2 mF	1 mF – 2.2 mF	820 μF – 1.5 mF	680 μF – 1 mF	330 μF – 470 μF	330 μF – 470 μF	220 μF	68 μF
10 x 25	2.2 mF – 3.3 mF	2.2 mF	1.2 mF	1 mF		220 μF		
10 x 30		3.3 mF	2.2 mF					
13 x 20	2.2 mF	2.2 mF	1.2 mF – 2.2 mF	1 mF	680 μF – 820 μF	470 μF	330 μF	100 μF
13 x 25	3.3 mF – 4.7 mF	3.3 mF – 4.7 mF	2.2 mF	1.2 mF	1 mF	680 μF	470 μF	120 μF – 150 μF
13 x 30	4.7 mF			1.5 mF – 2.2 mF				
13 x 35				2.2 mF				
13 x 40			3.3 mF					
16 x 25	4.7 mF	4.7 mF	3.3 mF	1.5 mF	1.2 mF – 1.5 mF	820 μF – 1 mF	680 μF	220 μF
16 x 32	6.8 mF – 8.2 mF			2.2 mF	2.2 mF	1.2 mF	820 μF – 1 mF	330 μF
16 x 36	10 mF	6.8 mF	4.7 mF	3.3 mF	2.2 mF	1.5 mF	1.2 mF	
18 x 36	15 mF	8.2 mF	6.8 mF	3.3 mF – 6.8 mF	3.3 mF		1.5 mF	470 μF
18 x 40						2.2 mF		

Radial Aluminum Electrolytic (cont.)

ESY Low ESR Impedance 105°C, 6.3 – 100 VDC

Capacitance Range: 5.6 to 6,800 µF • **Temperature Range:** -40°C to +85°C

Lifetime: 5,000 Hours

www.kemet.com/ESY



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

Case Size	Voltage							
	6.3	10	16	25	35	50	63	100
4 x 7	39 µF	27 µF	18 µF	15 µF	10 µF	5.6 µF		
5 x 7	47 µF – 68 µF	33 µF – 56 µF	27 µF – 33 µF	18 µF – 27 µF	15 µF – 18 µF	6.8 µF – 10 µF		
5 x 11	100 µF – 150 µF	68 µF – 100 µF	39 µF – 56 µF	33 µF – 47 µF	27 µF – 33 µF	15 µF – 22 µF	15 µF	6.8 µF
6.3 x 7	100 µF – 150 µF	120 µF	68 µF	56 µF	39 µF	15 µF – 22 µF		
6.3 x 11	270 µF – 330 µF	220 µF	100 µF – 120 µF	68 µF – 100 µF	47 µF – 56 µF	39 µF – 56 µF	22 µF – 33 µF	10 µF – 15 µF
8 x 7	180 µF – 220 µF	150 µF – 180 µF	100 µF – 120 µF	68 µF – 100 µF	47 µF – 56 µF	27 µF – 33 µF		
8 x 9		150 µF – 180 µF						
8 x 11	470 µF – 560 µF	270 µF – 470 µF	150 µF – 330 µF	120 µF – 220 µF	68 µF – 150 µF	68 µF – 100 µF	39 µF – 56 µF	22 µF – 27 µF
8 x 14	680 µF							33 µF
8 x 15	680 µF – 820 µF	560 µF		270 µF	180 µF	120 µF	68 µF – 82 µF	33 µF – 39 µF
8 x 16	820 µF	560 µF – 680 µF	470 µF	270 µF – 330 µF	180 µF – 220 µF	120 µF	68 µF – 82 µF	39 µF
8 x 20	1.2 mF	820 µF – 1 mF	560 µF – 680 µF	470 µF	270 µF	180 µF	120 µF	56 µF
10 x 12	1 mF	560 µF – 680 µF	470 µF	270 µF – 330 µF	180 µF – 220 µF	150 µF	68 µF – 82 µF	47 µF
10 x 12.5	1 mF	560 µF – 680 µF	470 µF	270 µF – 330 µF	180 µF – 220 µF	150 µF	68 µF – 82 µF	47 µF
10 x 15	1.2 mF	820 µF – 1 mF	560 µF – 680 µF	470 µF	330 µF	220 µF	100 µF – 120 µF	68 µF
10 x 16	1.2 mF	820 µF – 1 mF	560 µF – 680 µF	470 µF	330 µF	220 µF	100 µF – 120 µF	68 µF
10 x 20	1.5 mF	1.2 mF	820 µF – 1 mF	560 µF – 680 µF	470 µF	270 µF	150 µF – 180 µF	82 µF
10 x 25	1.8 mF – 2.2 mF	1.5 mF	1.2 mF	820 µF	560 µF	330 µF	220 µF	100 µF

Radial Aluminum Electrolytic (cont.)

ESY Low ESR Impedance 105°C, 6.3 – 100 VDC (cont.)

Capacitance Range: 5.6 to 6,800 μ F • Temperature Range: -40°C to +85°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
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

Radial Aluminum Electrolytic (cont.)

ESW Low Impedance 105°C, 6.3 – 100 VDC

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

Lifetime: 6,000 Hours

www.kemet.com/ESW



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

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

Radial Aluminum Electrolytic (cont.)

EST Long Life 105°C, 6.3 – 100 VDC

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

Lifetime: 10,000 Hours

www.kemet.com/EST



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

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

Radial Aluminum Electrolytic (cont.)

EAK High Temp 125°C, 10 – 450 VDC (Extremely Long Life at Lower Temperatures)

Capacitance Range: 47 to 4,700 µF • **Temperature Range:** -40°C to +125°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 = ±20%	010 = 10 016 = 16 025 = 25 035 = 35 050 = 50 063 = 63 100 = 100	160 = 160 200 = 200 250 = 250 350 = 350 400 = 400 450 = 450	A = Standard	See Dimension Table	See Ordering Options Table

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

Surface Mount Aluminum Electrolytic

EDK General Purpose 85°C, 4 – 100 VDC

Capacitance Range: 1 to 1,500 μF • **Temperature Range:** -40°C to +85°C

Lifetime: 2,000 Hours

www.kemet.com/EDK



EDK	336	M	004		A	9B	AA
Series	Capacitance Code (μF)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Surface Mount Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	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
4 x 5.4	22 μF – 47 μF	22 μF – 47 μF	15 μF – 33 μF	4.7 μF – 22 μF	1 μF – 10 μF
5 x 5.4	100 μF	33 μF – 100 μF	33 μF – 47 μF	22 μF – 47 μF	10 μF – 33 μF
6.3 x 5.4	220 μF – 330 μF	100 μF – 220 μF	100 μF	33 μF – 100 μF	22 μF – 47 μF
6.3 x 5.5		33 μF			
6.3 x 7.7	470 μF	220 μF – 330 μF	220 μF	100 μF – 220 μF	47 μF – 100 μF
8 x 6.2		220 μF – 330 μF	220 μF		47 μF – 100 μF
8 x 10.2		470 μF – 1 mF	330 μF – 470 μF	220 μF – 470 μF	100 μF – 330 μF
10 x 10.2		680 μF – 1.5 mF	470 μF – 1 mF	330 μF – 680 μF	220 μF – 470 μF

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

Surface Mount Aluminum Electrolytic (cont.)

EDH General Purpose 105°C, 6.3 – 450 VDC

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

Lifetime: 2,000 Hours

www.kemet.com/EDH



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

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

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

Surface Mount Aluminum Electrolytic (cont.)

EEV Very Low Impedance, Wider Temperature Range 105°C, 6.3 – 50 VDC

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

Lifetime: 2,000 Hours

www.kemet.com/EEV



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

Case Size	Voltage					
	6.3	10	16	25	35	50
4 x 5.4	22 μ F – 47 μ F	22 μ F – 33 μ F	22 μ F	10 μ F	3.3 μ F – 10 μ F	
5 x 5.4	47 μ F – 100 μ F	33 μ F	22 μ F – 47 μ F	22 μ F – 33 μ F	10 μ F – 22 μ F	
6.3 x 5.4	100 μ F	47 μ F – 100 μ F	47 μ F – 100 μ F	33 μ F – 68 μ F	33 μ F – 47 μ F	10 μ F – 22 μ F
6.3 x 5.8	270 μ F					
6.3 x 7.7	150 μ F – 330 μ F	150 μ F – 220 μ F	150 μ F – 220 μ F	100 μ F	68 μ F – 100 μ F	33 μ F
8 x 6.2	330 μ F	220 μ F	220 μ F			47 μ F
8 x 10.2	470 μ F – 1 mF	330 μ F – 470 μ F	220 μ F – 470 μ F	150 μ F – 330 μ F	100 μ F – 220 μ F	100 μ F
10 x 10.2	1.5 mF	470 μ F – 1 mF	680 μ F	330 μ F – 470 μ F	220 μ F – 330 μ F	220 μ F

EXV Very Low Impedance, Longer Life 105°C, 6.3 – 50 VDC

Capacitance Range: 1 to 1,000 μ F • **Temperature Range:** -55°C to +105°C

Lifetime: 5,000 Hours

www.kemet.com/EXV



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

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

Surface Mount Aluminum Electrolytic (cont.)

EDT High Temperature (Long Life at Lower Temperatures) 125°C, 10 – 50 VDC

Capacitance Range: 22 to 1,000 μF • **Temperature Range:** -40°C to +125°C

Lifetime: 2,000 Hours

www.kemet.com/EDT



EDT	107	M	010	A	9L	AA
Series	Capacitance Code (μF)	Tolerance	Rated Voltage (VDC)	Electrical Parameters	Size Code	Packaging
Surface Mount Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	010 = 10 016 = 16 025 = 25 035 = 35 050 = 50	A = Standard S = AEC-Q200	See Dimension Table	AA = Tape & Reel

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

Radial Aluminum Polymer

A750 Low ESR, High Ripple Current 105°C, 2.5 – 25 VDC

Capacitance Range: 47 to 1,500 μF • **Temperature Range:** -55°C to +105°C

Lifetime: 2,000 Hours

www.kemet.com/A750



A	750	EK	567	M	0E	AA	E020
Capacitor Class	Series	Size Code	Capacitance Code (μF)	Tolerance	Rated Voltage (VDC)	Packaging	ESR
A = Aluminum	Single-Ended Conductive Polymer Solid Capacitor 105°C 2,000 Hours	See Dimension Table	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm 20\%$	2.5 = 0E 4 = 0G 6.3 = 0J 10 = 1A 16 = 1C 25 = 1E	See Ordering Options Table	Last 3 digits represent significant figures for ESR values (m Ω)

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

Radial Aluminum Polymer (cont.)

A755 Low ESR, High Ripple Current, Long Life 105°C, 2.5 – 25 VDC

Capacitance Range: 47 to 1,500 μ F • Temperature Range: -55°C to +105°C

Lifetime: 5,000 Hours

www.kemet.com/A755



A	755	KS	687	M	0E	AA	E014
Capacitor Class	Series	Size Code	Capacitance Code (pF)	Tolerance	Rated Voltage (VDC)	Packaging	ESR
A = Aluminum	Single-Ended Conductive Polymer Solid Capacitor 105°C 5,000 Hours	See Dimension Table	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = $\pm$ 20%	2.5 = 0E 4 = 0G 6.3 = 0J 10 = 1A 16 = 1C 20 = 1D 25 = 1E	See Ordering Options Table	Last 3 digits represent significant figures for ESR values (m Ω)

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

A758 Low ESR, High Ripple Current, Long Life 105°C, 2.5 – 25 VDC

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

Lifetime: 5,000 Hours

www.kemet.com/A758



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

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

Radial Aluminum Polymer (cont.)

A759 Low ESR, High Ripple Current, High Temperature (Very Long Life at Lower Temperatures) 125°C, 6.3 – 250 VDC

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

Lifetime: 2,000 Hours

www.kemet.com/A759



A	759	BQ	106	M	1V	AA	E090
Capacitor Class	Series	Size Code	Capacitance Code (pF)	Tolerance	Rated Voltage (VDC)	Packaging	ESR
A = Aluminum	Single-Ended Conductive Polymer Solid Capacitor 125°C 2,000 Hours	See Dimension Table	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = ±20%	6.3 = 0J 10 = 1A 16 = 1C 20 = 1D 25 = 1E 35 = 1V 50 = 1H 63 = 1J 80 = 1K 100 = 2A 160 = 2C 250 = 2E	See Ordering Options Table	Last 3 digits represent significant figures for ESR values (mΩ)

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

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

Surface Mount Aluminum Polymer

A765 Low ESR, High Ripple Current 105°C, 2.5 – 25 VDC

Capacitance Range: 47 to 2,700 µF • Temperature Range: -55°C to +105°C

Lifetime: 2,000 Hours

www.kemet.com/A765



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

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

A767 Low ESR, High Ripple Current, Higher Voltage 105°C, 35 – 100 VDC

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

Lifetime: 2,000 Hours

www.kemet.com/A767



A	767	EB	226	M	1H	LA	E050
Capacitor Class	Series	Size Code	Capacitance Code (pF)	Tolerance	Rated Voltage (VDC)	Packaging	ESR
A = Aluminum	Surface Mount Conductive Polymer Solid Capacitor 105°C 2,000 Hours High Voltage	See Dimension Table	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = ±20%	35 = 1V 50 = 1H 63 = 1J 80 = 1K 100 = 2A	LA = Tape & Reel	Last 3 digits represent significant figures for ESR values (mΩ)

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

Ceramic Capacitors

Surface Mount

X7R Dielectric, 6.3 – 250 VDC

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

www.kemet.com/X7R



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

Case Size	Voltage								
	6.3	10	16	25	35	50	100	200	250
0402	10 pF – 0.1 µF	10 pF – 0.1 µF	10 pF – 0.1 µF	10 pF – 0.1 µF		10 pF – 0.022 µF			
0603	10 pF – 2.2 µF	10 pF – 2.2 µF	10 pF – 1 µF	10 pF – 1 µF		10 pF – 0.15 µF	10 pF – 0.047 µF	10 pF – 0.01 µF	1 nF – 0.01 µF
0805	10 pF – 10 µF	10 pF – 10 µF	10 pF – 4.7 µF	10 pF – 2.2 µF	10 pF – 1 µF	10 pF – 1 µF	10 pF – 0.22 µF	10 pF – 0.068 µF	180 pF – 0.068 µF
1206	10 pF – 22 µF	10 pF – 22 µF	10 pF – 10 µF	10 pF – 10 µF	10 pF – 4.7 µF	10 pF – 4.7 µF	10 pF – 1 µF	10 pF – 0.22 µF	1 nF – 0.22 µF
1210	10 pF – 47 µF	10 pF – 47 µF	10 pF – 22 µF	10 pF – 22 µF		10 pF – 10 µF	10 pF – 2.2 µF	10 pF – 0.47 µF	2.2 nF – 0.47 µF
1808						330 pF – 0.18 µF	330 pF – 0.056 µF	330 pF – 0.018 µF	
1812				470 pF – 10 µF		470 pF – 4.7 µF	470 pF – 3.3 µF	470 pF – 0.47 µF	6.8 nF – 0.47 µF
1825						3.9 nF – 2.2 µF	3.9 nF – 1 µF	3.9 nF – 1 µF	0.022 µF – 1 µF
2220				6.8 nF – 22 µF		6.8 nF – 15 µF	6.8 nF – 1 µF	0.082 µF – 1 µF	0.082 µF – 1 µF
2225						4.7 nF – 2.2 µF	4.7 nF – 1.2 µF	4.7 nF – 1.2 µF	0.1 µF – 1.2 µF

Surface Mount (cont.)

X5R Dielectric, 4 – 50 VDC

Capacitance Range: 0.01 to 100 μF • Temperature Range: -55°C to +125°C

www.kemet.com/X5R



C	1206	C	107	M	9	P	A	C	TU
Ceramic	Case Size (L" x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Dielectric	Failure Rate/ Design	Termination Finish ¹	Packaging/Grade (C-Spec)
	0201 0402 0603 0805 1206 1210	C = Standard	Two significant digits and number of zeros.	K = $\pm 10\%$ M = $\pm 20\%$	7 = 4 9 = 6.3 8 = 10 4 = 16 3 = 25 6 = 35 5 = 50	P = X5R	A = N/A	C = 100% matte Sn	See "Packaging C-Spec Ordering Options Table"

Case Size	Voltage						
	4	6.3	10	16	25	35	50
0201	0.01 μF – 0.1 μF	0.01 μF – 0.1 μF	0.01 μF	0.01 μF			
0402	0.01 μF – 10 μF	0.01 μF – 10 μF	0.01 μF – 2.2 μF	0.01 μF – 1 μF	0.1 μF		
0603	0.1 μF – 10 μF	0.1 μF – 10 μF	0.1 μF – 4.7 μF	0.1 μF – 2.2 μF	0.1 μF – 1 μF		
0805	0.47 μF – 47 μF	0.47 μF – 47 μF	0.47 μF – 22 μF	0.47 μF – 10 μF	0.47 μF – 10 μF		1 μF
1206		0.27 μF – 100 μF	0.27 μF – 47 μF	0.27 μF – 22 μF	0.27 μF – 10 μF		4.7 μF
1210		0.39 μF – 100 μF	0.39 μF – 100 μF	0.39 μF – 100 μF	0.39 μF – 22 μF	0.39 μF – 10 μF	0.39 μF – 10 μF
1812					10 μF		

KO-CAP®
Polymer Electrolytic
Capacitors

Surface Mount

T520/T521/T545 Polymer Tantalum

Capacitance Range: 22 to 1,500 μF • Energy Range: 1.2 to 25.5 mJ

Temperature Range: -55°C to +105°C

www.kemet.com/T5x-SSD



T	548	V	157	M	016	A	T	E050	
Capacitor Class	Series	Case Size	Capacitance Code (μF)	Capacitance Tolerance	Rated Voltage (VDC)	Failure Rate/Design	Termination Finish	ESR	Packaging (C-Spec)
T = Tantalum	520 = Low voltage 521 = High voltage 523 = Facedown terminal 545 = High energy 548 = High energy, facedown terminal	B, G, H, J, M, O, T, V, W, X, Y	First two digits represent significant figures. Third digit specifies number of zeros.	K = $\pm 10\%$ M = $\pm 20\%$	006 = 6.3 010 = 10 016 = 16 020 = 20 025 = 25 035 = 35	A = N/A	T = 100% matte tin (Sn)-plated P* = Ni-Pd-Au-plated	ESR in m Ω	Blank = 7" reel 7280 = 13" reel

* P termination only available on T523 and T548 part numbers.

Case Size	Voltage					
	6.3	10	16	20	25	35
B/3528 – 21	33 μF – 330 μF	33 μF – 100 μF			10 μF – 22 μF	3.3 μF – 10 μF
H/7360 – 20	1 mF – 1.5 mF	820 μF	180 μF			
M/3528 – 15	150 μF					
T/3528 – 12	15 μF – 150 μF	33 μF			10 μF	6.8 μF
V/7343 – 19	100 μF – 470 μF	68 μF – 220 μF	33 μF – 100 μF	22 μF – 47 μF	15 μF – 33 μF	10 μF – 15 μF
W/7343 – 15	100 μF – 470 μF	68 μF – 100 μF	33 μF – 47 μF	47 μF	22 μF	
X/7343 – 43	470 μF – 680 μF	330 μF	150 μF – 330 μF		100 μF	47 μF
Y/7343 – 40	330 μF – 680 μF	150 μF – 330 μF				

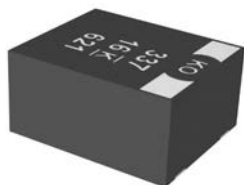
Surface Mount (cont.)

T523/T548 Polymer Tantalum Facedown Terminal

Capacitance Range: 22 to 1,500 μ F • Energy Range: 1.2 to 25.5 mJ

Temperature Range: -55°C to +105°C

www.kemet.com/T5x-SSD



T	548	V	157	M	016	A	T	E050	
Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Failure Rate/Design	Termination Finish	ESR	Packaging (C-Spec)
T = Tantalum	520 = Low voltage 521 = High voltage 523 = Facedown terminal 545 = High energy 548 = High energy, facedown terminal	B, G, H, J, M, O, T, V, W, X, Y	First two digits represent significant figures. Third digit specifies number of zeros.	K = $\pm$ 10% M = $\pm$ 20%	006 = 6.3 010 = 10 016 = 16 020 = 20 025 = 25 035 = 35	A = N/A	T = 100% matte tin (Sn)-plated P* = Ni-Pd-Au-plated	ESR in m Ω	Blank = 7" reel 7280 = 13" reel

* P termination only available on T523 and T548 part numbers.

Case Size	Voltage				
	6.3	10	16	25	35
H/7360 – 20		1 mF	220 μ F – 470 μ F		
J/7360 – 15	680 μ F	330 μ F – 470 μ F	220 μ F		
T/3528 – 12	150 μ F				
V/7343 – 20			150 μ F	100 μ F	
W/7343 – 15			68 μ F – 150 μ F		47 μ F

Supercapacitors

Radial

HVZ Radial, 2.5 – 2.7 V, 60°C & 70°C

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

www.kemet.com/HVZ



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

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

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