

Surface Mount Aluminum Electrolytic

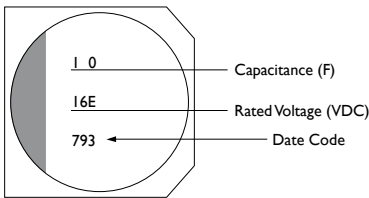
CD [For Ultra Low Impedance]



FEATURE

For Ultra Low Impedance Series with 105°C 2000 Hours
Suitable for AV (TV, Video, Audio), Monitor / Computer,
OA / HA / Communication, SMPS

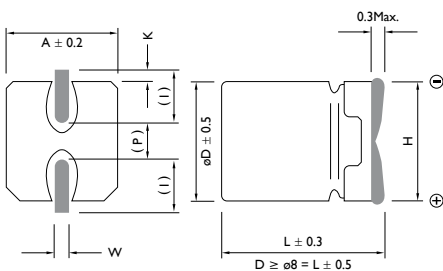
MARKING



ELECTRICAL CHARACTERISTICS

Operation Temperature Range	-40 to +105°C					
Rated Voltage Range	6.3 to 35VDC					
Rated Capacitance Range	4.7 ~ 1500μF					
Capacitance Tolerance	±20% at 120Hz, 20°C					
Leakage Current (Max. 20°C)	I ≤ 0.01CV (μA) or 3μA (After 2 Minutes Application of DC Rated Voltage at 20°C) I = Leakage Current (μA), C = Rated Capacitance (μF), V = Rated Voltage (V)					
Dissipation Factor (tanδ) (120Hz, 20°C)	WV(V)	6.3	10	16	25	35
	tan δ	0.26	0.19	0.16	0.14	0.12
Low Temperature Stability	Impedance Ratio at 120Hz					
	WV (V)	6.3	10	16	25	35
	Z (-25°C) / Z (+20°C)	2	2	2	2	2
	Z (-40°C) / Z (+20°C)	3	3	3	3	3
Endurance	After the WV has been applied at 105°C for 2000 hours, the capacitors shall meet following requirements. (a) Capacitance Change: Within ±30% of the Initial Value (b) Dissipation Factor: Not Exceeding 200% of Specified Value (c) Leakage Current: Not Exceeding the Specified Value					
Shelf Life	After having been placed at 105°C without voltage applied for 1000 hours, the capacitors shall meet the same requirements as Endurance.					

DIMENSIONS



() Reference Size

Unit: mm

SIZE CODE	Dø	L	A	H	I	W	P	K
B	4.0	5.4	4.3	5.5 Max.	1.8	0.65 ± 0.1	1.0 ± 0.2	0.35 ^{+0.15} _{-0.20}
C	5.0	5.4	5.3	6.5 Max.	2.2	0.65 ± 0.1	1.5 ± 0.2	0.35 ^{+0.15} _{-0.20}
D	6.3	5.4	6.6	7.8 Max.	2.6	0.65 ± 0.1	1.8 ± 0.2	0.35 ^{+0.15} _{-0.20}
E	8.0	6.5	8.3	9.5 Max.	3.4	0.65 ± 0.1	2.2 ± 0.2	0.35 ^{+0.15} _{-0.20}
F	8.0	10.5	8.3	10.0 Max.	3.4	0.90 ± 0.2	3.1 ± 0.2	0.70 ± 0.20
G	10.0	10.5	10.3	12.0 Max.	3.5	0.90 ± 0.2	4.6 ± 0.2	0.70 ± 0.20
H	6.3	7.7	6.6	7.8 Max.	2.6	0.65 ± 0.1	1.8 ± 0.2	0.35 ^{+0.15} _{-0.20}

CASE SIZE & PERMISSIBLE RIPPLE CURRENT OF STANDARD PRODUCTS

D x L: mm

CAP. (μF)	RATED VOLTAGE WV (SURGE VOLTAGE WV)								
	6.3 (8) SIZE			10 (13) SIZE			16 (20) SIZE		
	SIZE	RIPPLE	ESR	SIZE	RIPPLE	ESR	SIZE	RIPPLE	ESR
22	4 x 5.4	90	1.93	4 x 5.4	90	1.93	4 x 5.4	90	1.93
							5 x 5.4	160	1.00
33	4 x 5.4	90	1.93	4 x 5.4	90	1.93	5 x 5.4	160	1.00
				5 x 5.4	160	1.00			
47	4 x 5.4	90	1.93	6.3 x 5.4	190	0.52	5 x 5.4	160	1.00
	5 x 5.4	160	1.00				6.3 x 5.4	240	0.52
100	5 x 5.4	160	1.00	6.3 x 5.4	190	0.52	6.3 x 5.4	240	0.52
	6.3 x 5.4	240	0.52						
150	8 x 6.5	240	0.30	6.3 x 7.7	240	0.34	6.3 x 7.7	280	0.34
220	8 x 6.5	240	0.30	6.3 x 7.7	280	0.34	6.3 x 7.7	330	0.34
				8 x 6.5	300	0.26	8 x 10.5	370	0.22
330	6.3 x 7.7	280	0.34	8 x 10.5	600	0.16	8 x 10.5	600	0.16
	8 x 6.5	300	0.26						
470	8 x 10.5	600	0.16	8 x 10.5	600	0.16	8 x 10.5	600	0.16
							10 x 10.5	600	0.08
680	8 x 10.5	600	0.16	10 x 10.5	600	0.12	10 x 10.5	850	0.08
820							10 x 10.5	850	0.08
1000	10 x 10.5	600	0.16						
1200	10 x 10.5	700	0.16						
1500	10 x 10.5	850	0.08						

Note: 1. Ripple Current: (mA/rms) 105°C, 100KHz

2. ESR: 100KHz / 20°C (Ω Max.)



CASE SIZE & PERMISSIBLE RIPPLE CURRENT OF STANDARD PRODUCTS

D x L: mm

CAP. (μF)	RATED VOLTAGE WV (SURGE VOLTAGE WV)					
	25 (32) SIZE			35 (44) SIZE		
		RIPPLE	ESR		RIPPLE	ESR
4.7				4 x 5.4	90	1.93
10	4 x 5.4	90	1.93	4 x 5.4	90	1.93
				5 x 5.4	160	1.00
22	5 x 5.4	160	1.00	5 x 5.4	160	1.00
33	5 x 5.4	160	1.00	6.3 x 5.4	240	0.52
	6.3 x 5.4	240	0.52			
47	6.3 x 5.4	240	0.52	6.3 x 5.4	240	0.52
68	6.3 x 5.4	240	0.52	6.3 x 7.7	280	0.34
100	6.3 x 7.7	280	0.34	6.3 x 7.7	280	0.34
	8 x 6.5	300	0.26	8 x 10.5	600	0.16
				10 x 10.5	850	0.08
150	8 x 10.5	600	0.16	8 x 10.5	600	0.16
220	8 x 10.5	600	0.16	10 x 10.5	600	0.16
330	10 x 10.5	600	0.16	10 x 10.5	850	0.08
470	10 x 10.5	850	0.08			

Note: 1. Ripple Current: (mA/rms) 105°C, 100KHz

2. ESR: 100KHz / 20°C (Ω Max.)