

# Surface Mount Aluminum Electrolytic

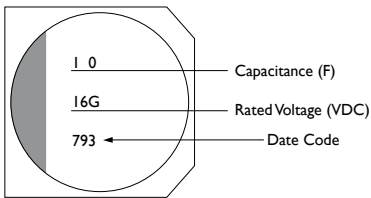
# CA [ For General ]



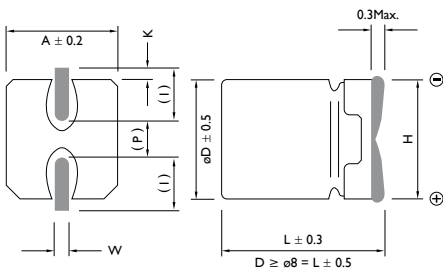
## FEATURE

For General Purpose Series with 85°C 2000 Hours  
 Suitable for AV (TV, Video, Audio) Monitor / Computer,  
 Home appliance, OA / HA / Communication

## MARKING



## DIMENSIONS



( ) Reference Size

## ELECTRICAL CHARACTERISTICS

Operation Temperature Range	-40 to +85°C									
Rated Voltage Range	4 to 100VDC									
Rated Capacitance Range	0.1 ~ 1000µF									
Capacitance Tolerance	±20% at 120Hz, 20°C									
Leakage Current (Max. 20°C)	I ≤ 0.01CV (µA) or 3µA whichever is greater: (After 2 Minutes Application of DC Rated Voltage at 20°C) I = Leakage Current (µA), C = Rated Capacitance (µF), V = Rated Voltage (V)									
Low Temperature Stability	Impedance Ratio at 120Hz (Max.)									
	WV (V)	4	6.3	10	16	25	35	50	63	100
	Z (-25°C)	7	4	3	2	2	2	2	2	3
	Z (-40°C)	15	8	6	4	4	3	3	3	2
Endurance	After the rated voltage has been applied at 85°C for 2000 hours, the capacitors shall meet the following requirements. (a) Capacitance Change: Within ±20% 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 85°C without voltage applied for 1000 hours, the capacitors shall meet the same requirements as Endurance.									

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 <sup>+ 0.15</sup> <sub>- 0.20</sub>
C	5.0	5.4	5.3	6.5 Max.	2.2	0.65 ± 0.1	1.5±0.2	0.35 <sup>+ 0.15</sup> <sub>- 0.20</sub>
D	6.3	5.4	6.6	7.8 Max.	2.6	0.65 ± 0.1	1.8±0.2	0.35 <sup>+ 0.15</sup> <sub>- 0.20</sub>
E	8.0	6.5	8.3	9.5 Max.	3.4	0.65 ± 0.1	2.2±0.2	0.35 <sup>+ 0.15</sup> <sub>- 0.20</sub>
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 <sup>+ 0.15</sup> <sub>- 0.20</sub>

## CASE SIZE & PERMISSIBLE RIPPLE CURRENT OF STANDARD PRODUCTS

D x L: mm

### CAP. RATED VOLTAGE WV (SURGE VOLTAGE WV)

(μF)	4 (5)			6.3 (8)			10 (13)			16 (20)		
	SIZE	RIPPLE CURRENT	DISSIPATION FACTOR	SIZE	RIPPLE CURRENT	DISSIPATION FACTOR	SIZE	RIPPLE CURRENT	DISSIPATION FACTOR	SIZE	RIPPLE CURRENT	DISSIPATION FACTOR
4.7										4 x 5.4	20	0.16
10							4 x 5.4	14	0.30	4 x 5.4	28	0.16
22	4 x 5.4	19	0.35	4 x 5.4	20	0.26	4 x 5.4	28	0.30	4 x 5.4	27	0.26
										5 x 5.4	39	0.16
33	4 x 5.4	26	0.35	5 x 5.4	22	0.26	4 x 5.4	29	0.30	5 x 5.4	45	0.26
							5 x 5.4	43	0.20	6.3 x 5.4	66	0.16
47	4 x 5.4	34	0.35	4 x 5.4	38	0.26	5 x 5.4	43	0.30	6.3 x 5.4	70	0.16
				5 x 5.4	46	0.26	6.3 x 5.4	46	0.30	6.3 x 7.7	75	0.18
100	5 x 5.4	61	0.35	6.3 x 5.4	71	0.26	5 x 5.4	60	0.30	6.3 x 5.4	70	0.20
							6.3 x 5.4	70	0.26	6.3 x 7.7	85	0.20
										8 x 6.5	86	0.20
220	6.3 x 5.4	82	0.35	6.3 x 5.4	190	0.26	6.3 x 7.7	105	0.26	6.3 x 7.7	105	0.20
				6.3 x 7.7	235	0.35	8 x 6.5	250	0.26	8 x 10.5	280	0.20
				8 x 6.5	250	0.35						
330				6.3 x 7.7	280	0.35	8 x 10.5	330	0.26	8 x 10.5	316	0.20
				8 x 6.5	300	0.35				10 x 10.5	380	0.20
				8 x 10.5	340	0.35						
470				8 x 10.5	380	0.35	8 x 10.5	330	0.26	8 x 10.5	350	0.20
							10 x 10.5	400	0.26	10 x 10.5	420	0.20
1000				8 x 10.5	580	0.35	10 x 10.5	580	0.26			
				10 x 10.5	700	0.35						
1500				10 x 10.5	1000	0.35						

Note: 1. Ripple Current: (mA/rms) 85°C, 120Hz

2. Dissipation Factor: 20°C, 120Hz



## CASE SIZE & PERMISSIBLE RIPPLE CURRENT OF STANDARD PRODUCTS

D × L: mm

CAP. (μF)	RATED VOLTAGE WV (SURGE VOLTAGE WV)								
	25 (32) SIZE			35 (44) SIZE			50 (63) SIZE		
	SIZE	RIPPLE CURRENT	DISSIPATION FACTOR	SIZE	RIPPLE CURRENT	DISSIPATION FACTOR	SIZE	RIPPLE CURRENT	DISSIPATION FACTOR
0.10							4 × 5.4	1	0.12
0.22							4 × 5.4	2	0.12
0.33							4 × 5.4	3	0.12
0.47							4 × 5.4	5	0.12
1.0							4 × 5.4	10	0.12
2.2				4 × 5.4	8	0.12	4 × 5.4	16	0.12
3.3				4 × 5.4	10	0.12	4 × 5.4	16	0.12
4.7	4 × 5.4	22	0.14	4 × 5.4	22	0.12	5 × 5.4	23	0.12
10	4 × 5.4	24	0.20	4 × 5.4	24	0.16	5 × 5.4	28	0.12
	5 × 5.4	28	0.14	5 × 5.4	30	0.12	6.3 × 5.4	35	0.12
22	5 × 5.4	45	0.14	5 × 5.4	49	0.23	6.3 × 5.4	70	0.12
	6.3 × 5.4	55	0.14	6.3 × 5.4	60	0.12	6.3 × 7.7	90	0.12
33							8 × 6.5	110	0.12
	5 × 5.4	53	0.14	6.3 × 5.4	100	0.14	6.3 × 7.7	90	0.12
	6.3 × 5.4	65	0.14	8 × 6.5	130	0.14	8 × 10.5	120	0.12
47	6.3 × 5.4	70	0.20	6.3 × 7.7	150	0.14	6.3 × 7.7	63	0.12
	8 × 6.5	96	0.16	8 × 6.5	165	0.14	8 × 10.5	100	0.12
							10 × 10.5	130	0.12
100	6.3 × 7.7	115	0.16	6.3 × 7.7	140	0.14	8 × 10.5	160	0.12
	8 × 6.5	140	0.16	8 × 6.5	170	0.14	10 × 10.5	190	0.12
	8 × 10.5	180	0.16	10 × 10.5	210	0.14			
220	8 × 6.5	210	0.16	8 × 10.5	250	0.14	10 × 10.5	310	0.12
	8 × 10.5	260	0.16	10 × 10.5	310	0.14			
	10 × 10.5	310	0.16						
330	8 × 10.5	350	0.16	10 × 10.5	400	0.14			
	10 × 10.5	430	0.16						
470	10 × 10.5	480	0.16						

Note: 1. Ripple Current: (mA/rms) 85°C, 120Hz

2. Dissipation Factor: 20°C, 120Hz

**CASE SIZE & PERMISSIBLE RIPPLE CURRENT OF STANDARD PRODUCTS**

D x L: mm

CAP. (μF)	RATED VOLTAGE WV (SURGE VOLTAGE WV)					
	63 (79) SIZE			100 (125) SIZE		
		RIPPLE CURRENT	DISSIPATION FACTOR		RIPPLE CURRENT	DISSIPATION FACTOR
3.3				8 x 10.5	30	0.18
4.7	6.3 x 5.4	20	0.18	8 x 10.5	50	0.18
10	6.3 x 5.4	20	0.18	8 x 10.5	55	0.18
22	8 x 10.5	30	0.18	10 x 10.5	60	0.18
33	8 x 10.5	30	0.18	10 x 10.5	65	0.18
47	8 x 10.5	30	0.18			
100	10 x 10.5	60	0.18			

Note: 1. Ripple Current: (mA/rms) 85°C, 120Hz  
 2. Dissipation Factor: 20°C, 120Hz