



SMD Aluminium Electrolytic Capacitors

EL

105°C Extended Life

Chip Type Series

- Designed for surface mounting on high density circuit board.
- Supplied with carrier taping for automatic mounting machine.
- Guarantees 2000Hours at 105°C.



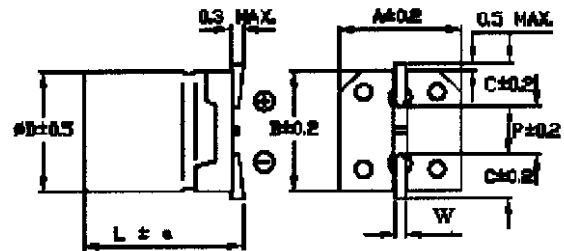
Specifications

Item	Characteristics						
Operating Temperature Range	- 40°C ~ + 105°C						
Working Voltage Range	6.3 ~ 50V						
Capacitance Range	0.1 ~ 1000 μ F						
Capacitance Tolerance	$\pm 20\%$ (120 Hz, 20°C)						
Leakage Current Max.	$I \leq 0.01$ CV or 3 (μ A) whichever is greater (after 2 min.)						
Dissipation Factor at 120Hz, 20°C	W.V.	6.3	10	16	25	35	50
	$\tan \delta$ (max)	0.35	0.30	0.25	0.18	0.16	0.14
Low Temp. Characteristics (Impedance ratio at 120 Hz)	W.V.	6.3	10	16	25	35	50
	Z -25°C / Z +20°C	4	3	2	2	2	2
	Z -40°C / Z +20°C	10	8	6	4	4	4
Load Life (After application of the rated voltage for 2000 hours at 105°C)	Capacitance Change	Within $\pm 25\%$ of initial value.					
	$\tan \delta$	Less than 250% of initial specified value.					
	Leakage Current	Less than specified value.					
Shelf Life (at 105°C)	After 1000 hrs. no load test, leakage current, capacitance change and $\tan \delta$ are as same as load life value.						
Soldering Heat Resistance	Place terminal side surface on 250°C hot plate for 30 seconds allow test samples to be cooled down to room temperature						
	Capacitance Change	Within $\pm 10\%$ of initial value.					
	$\tan \delta$	Less than initial specified value.					
	Leakage Current	Less than initial specified value.					

DIAGRAM OF DIMENSIONS

Unit=mm

$\varnothing D \pm 0.5$ MAX.	L	a	A ± 0.2	B ± 0.2	C ± 0.2	W	P ± 0.2
4	5.2	0.3	4.3	4.3	1.8	0.5 ~ 0.8	1.0
5	5.2	0.3	5.3	5.3	2.1	0.5 ~ 0.8	1.4
6.3	5.2	0.3	6.6	6.6	2.4	0.5 ~ 0.8	2.2
6.3	7.7	0.3	6.6	6.6	2.4	0.5 ~ 0.8	2.2
8	10.5	0.5	8.3	8.3	2.9	1.1 ~ 1.4	3.2
10	10.5	0.5	10.3	10.3	3.2	1.1 ~ 1.4	4.6



DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT mA(rms) at 120 Hz, 105°C

μ F \ W.V.	6.3	10	16	25	35	50
0.1						4 x 5.2 0.7
0.22						4 x 5.2 1.6
0.33						4 x 5.2 2.5
0.47						4 x 5.2 3.5
1						4 x 5.2 7
2.2						4 x 5.2 11
3.3						4 x 5.2 13
4.7				4 x 5.2 12	4 x 5.2 14	5 x 5.2 19
10			4 x 5.2 16	5 x 5.2 22	5 x 5.2 24	6.3 x 5.2 32
22	4 x 5.2 20	5 x 5.2 25	5 x 5.2 28	6.3 x 5.2 38	6.3 x 5.2 40	6.3 x 7.7 60
33	5 x 5.2 28	5 x 5.2 33	6.3 x 5.2 39	6.3 x 5.2 52	6.3 x 7.7 77	8 x 10.5 140
47	5 x 5.2 34	6.3 x 5.2 41	6.3 x 5.2 54	6.3 x 7.7 91	8 x 10.5 150	8 x 10.5 150
100	6.3 x 5.2 66	6.3 x 5.2 60	6.3 x 7.7 95	8 x 10.5 150	8 x 10.5 180	10 x 10.5 220
220	6.3 x 7.7 105	8 x 10.5 175	8 x 10.5 175	8 x 10.5 195	10 x 10.5 290	
330	8 x 10.5 195	8 x 10.5 195	8 x 10.5 210	10 x 10.5 290		
470	8 x 10.5 210	8 x 10.5 210	10 x 10.5 290			
680		10 x 10.5 300				
1000	10 x 10.5 300					