SMD Aluminium Electrolytic Capacitors

SL — 85°C Extended Life

Chip Type Series

- Designed for surface mounting on high density PC board.
- Supplied with carrier taping for automatic mounting machine.
- Guarantees 2000Hours at 85°C.

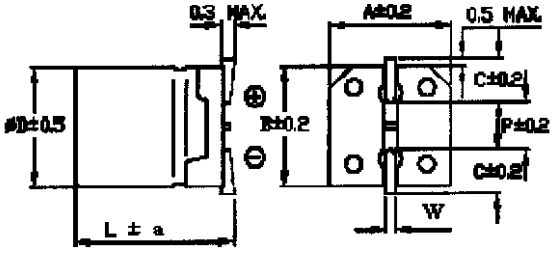
Specifications

Item	Characteristics									
Operating Temperature Range	- 40°C ~ + 85°C									
Working Voltage Range	4 ~100V									
Capacitance Range	0.1 ~1500 μF									
Capacitance Tolerance	± 20% (120 Hz , 20°C)									
Leakage Current Max.	I ≤ 0.01 CV or 3 (μA) whichever is greater (after 2 min.)									
Dissipation Factor at 120Hz, 20°C (tan δ_{max})	W.V.	4	6.3	10	16	25	35	50	63	100
	Ø3	0.40	0.30	-	0.19	0.16	0.14	0.14	-	-
	Ø4~6.3	0.35	0.26	0.20	0.16	0.14	0.12	0.12	0.12	0.10
	Ø8 ~ 10	-	0.30	0.24	0.20	0.16	0.14	0.12	0.12	0.10
Low Temp. Characteristics (Impedance ratio at 120 Hz)	W.V.	4	6.3	10	16	25	35	50	63	100
	Z -25°C /Z+20°C	7	4	3	2	2	2	2	2	2
	Z -40°C /Z+20°C	15	8	8	4	4	3	3	3	3
Load Life (After application of the rated voltage for 2000 hours at 85°C)	Capacitance Change	Within ± 25% of initial value. (4WV<±30%)								
	tan δ	Less than 200% of initial specified value.								
	Leakage Current	Less than specified value.								
Shelf Life (at 85°C)	After 1000 hrs. no load test, leakage current, capacitance change and tan δ 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 ± 10% of initial value.								
	tan δ	Less than initial specified value.								
	Leakage Current	Less than initial specified value.								

Unit=mm

ØD± 0.5 MAX.	L	a	A ± 0.2	B ± 0.2	C ± 0.2	W	P ± 0.
3	5.4	0.3	3.3	3.3	1.5	0.45 ~ 0.7	0.6
4	5.2	0.3	4.3	4.3	1.8	0.5 ~ 0.8	1.0
4	6.0	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	6.0	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	0.7 ~ 1.0	3.2
10	10.5	0.5	10.3	10.3	3.2	0.7 ~ 1.0	4.6

DIAGRAM OF DIMENSIONS



DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT mA(rms) at 120 Hz, 85°C

W.V. / μF	4		6.3		10		16		25		35		50		63		100	
0.1													* 4 x 5.2	1.0	4 x 5.2	1.0		
0.22													* 4 x 5.2	2.0	4 x 5.2	2.3		
0.33													* 4 x 5.2	2.8	4 x 5.2	3.5		
0.47													* 4 x 5.2	4.0	4 x 5.2	5.0		
1													* 4 x 5.2	8.4 (8.0)	4 x 5.2	10	4 x 6.0	10
2.2											*	(8.0)	* 4 x 5.2	13 (10)	4 x 5.2	15	6.3 x 6.0	20
3.3											*	(10)	4 x 5.2	17	5 x 5.2	20	6.3 x 6.0	28
4.7									* 4 x 5.2	16 (12)	4 x 5.2	18	5 x 5.2	20	5 x 5.2	23	6.3 x 6.0	35
10							*4 x 5.2	25 (18)	5 x 5.2	27	5 x 5.2	29	6.3 x 5.2	33	6.3 x 5.2	34	6.3 x 7.7	50
22	*	(19)	*4 x 5.2	31 (19)	5 x 5.2	33	5 x 5.2	37	6.3 x 5.2	42	6.3 x 5.2	46	6.3 x 6.0	45	6.3 x 7.7	70	8 x 10.5	120
33	4 x 5.2	28	5 x 5.2	37	5 x 5.2	41	6.3 x 5.2	49	6.3 x 5.2	52	6.3 x 6.0	60	6.3 x 7.7	85	8 x 10.5	160	10 x 10.5	190
47	4 x 5.2	33	5 x 5.2	45	6.3 x 5.2	52	6.3 x 5.2	58	6.3 x 6.0	68	6.3 x 6.0	70	6.3 x 7.7	90	8 x 10.5	170		
56	5 x 5.2	42	5 x 5.2	54	6.3 x 5.2	68	6.3 x 5.2	74	6.3 x 6.0	82	6.3 x 7.7	80	6.3 x 7.7	110	8 x 10.5	200		
68	5 x 5.2	45	6.3 x 5.2	62	6.3 x 5.2	72	6.3 x 5.2	80	6.3 x 6.0	94	6.3 x 7.7	110	8 x 10.5	170	10 x 10.5	230		
100	5 x 5.2	56	6.3 x 5.2	70	6.3 x 5.2	76	6.3 x 5.2	86	6.3 x 7.7	130	6.3 x 7.7	120	8 x 10.5	200	10 x 10.5	280		
150	6.3 x 5.2	74	6.3 x 5.2	78	6.3 x 6.0	88	6.3 x 7.7	135	8 x 10.5	200	8 x 10.5	220	10 x 10.5	240				
220	6.3 x 5.2	82	6.3 x 6.0	95	6.3 x 7.7	150	6.3 x 7.7	150	8 x 10.5	280	8 x 10.5	270	10 x10.5	320				
330	6.3 x 6.0	102	6.3 x7.7	150	8 x 10.5	250	8 x 10.5	280	8 x 10.5	310	10 x 10.5	340						
470	6.3 x7.7	150	8 x 10.5	270	8 x 10.5	300	8 x 10.5	330	10 x 10.5	430								
680			8 x 10.5	320	10 x 10.5	380	10 x 10.5	390										
1000			8 x 10.5	330	10 x 10.5	450												
1500			10 x 10.5	450														

* Ø3 is available