

SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS



TC Chip type, Higher Capacitance Range Series

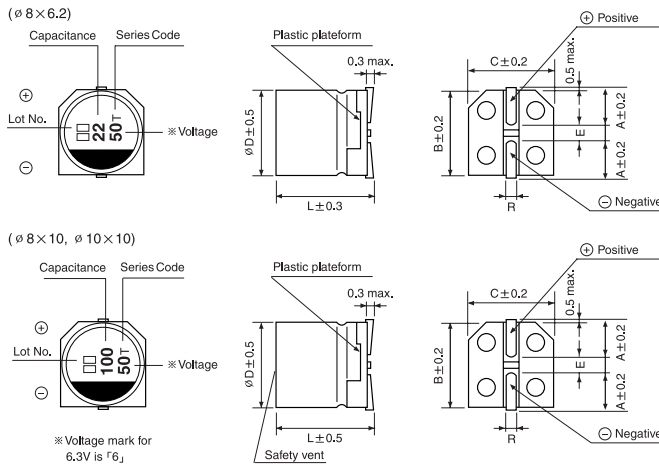
- Chip type, higher capacitance in large case sizes
- Chip type with load life 2000 hours at +105°C
- Designed for surface mounting on high density PC board
- Applicable to automatic insertion machine using carrier tape



Item	Characteristics						
Operating temperature range	-55 ~ +105°C						
Leakage current max.	I = 0.01CV or 3 μ A whichever is greater (after 2 minutes)						
Capacitance tolerance	\pm 20% at 120Hz, 20°C						
Dissipation factor max. (at 120Hz, 20°C)	WV	6.3	10	16	25	35	50
	tan δ	0.22	0.19	0.16	0.14	0.12	0.10
Low temperature characteristics (Impedance ratio at 120Hz)	WV	6.3	10	16	25	35	50
	Z-55°C/Z+20°C	4	4	3	3	3	2
Load life (after application of the rated voltage for 2000 hours at 105°C)	Leakage current	Less than specified value					
	Capacitance change	Within \pm 20% of initial value					
	tan δ	Less than 200% of specified value					
Shelf life (at 105°C)	After 1000 hours no load test, leakage current, capacitance and tan δ are same as load life value.						
Resistance to soldering heat	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them at 250°C for 30 seconds.						
	Leakage current	Less than specified value					
	Capacitance change	Within \pm 10% of initial value					
	tan δ	Less than specified value					

DRAWING

Unit : mm



$\phi D \times L$	W	B	C	E	R
8 \times 6.2	3.3	8.3	8.3	2.3	0.5~0.8
8 \times 10	2.9	8.3	8.3	3.1	0.8~1.1
10 \times 10	3.2	10.3	10.3	4.5	0.8~1.1

DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF	WV	6.3	10	16	25	35	50
22							8 \times 6.2 67
33						8 \times 6.2 76	8 \times 10 133
47					8 \times 6.2 79	8 \times 10 124	10 \times 10 180
100			8 \times 6.2 90	8 \times 10 148	8 \times 10 181	10 \times 10 304	10 \times 10 310
220	8 \times 10	161	8 \times 10 173	10 \times 10 330	10 \times 10 351	10 \times 10 450	
330	8 \times 10	288	10 \times 10 318	10 \times 10 441	10 \times 10 372		
470	10 \times 10	340	10 \times 10 351	10 \times 10 489			
680	10 \times 10	408	10 \times 10 392				
1000	10 \times 10	495					

Ripple current (mA rms) at 105°C, 120Hz
Case size $\phi D \times L$ (mm)