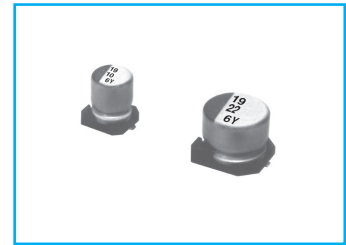


# SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

**CZ** Chip type, High Ripple Current Series

**S**  
Solvent Proof



- High Ripple current Compared with CD series
- Designed for surface mounting on high density PC board
- Applicable to automatic insertion machine using carrier tape
- Complied to the RoHS directive

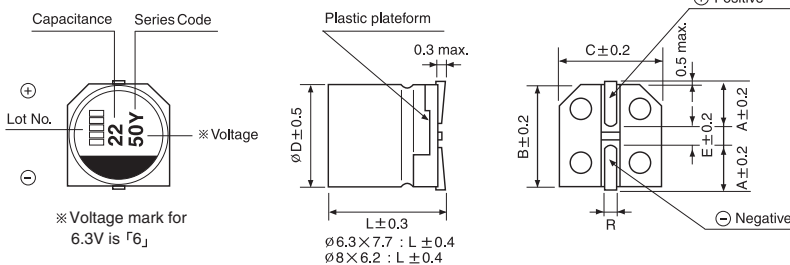
CD → **CZ**  
High Ripple

Item	Characteristics					
Operating temperature range	-55 ~ +105°C					
Leakage current max.	$I = 0.01CV$ or $3\mu A$ 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
	tan $\delta$	0.24	0.19	0.16	0.14	0.12
Low temperature characteristics (Impedance ratio at 120Hz)	WV	6.3	10	16	25	35
	Z-25°C/Z+20°C	2	2	2	2	2
	Z-55°C/Z+20°C	3	3	3	3	3
Load life (after application of the rated voltage for 2000 hours at 105°C)	Leakage current	Less than specified value				
	Capacitance change	Within $\pm 25\%$ of initial value				
	tan $\delta$	Less than 200% of specified value				
Shelf life (at 105°C)	After 1000 hours no load test, leakage current, capacitance and tan $\delta$ are same as load life value. The measurement shall be performed at 20°C by the KS C IEC 60384 - 4					
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 10 seconds.					
	Leakage current	Less than specified value				
	Capacitance change	Within $\pm 10\%$ of initial value				
	tan $\delta$	Less than specified value				

## ● DRAWING -Series code of CZ is "Y"

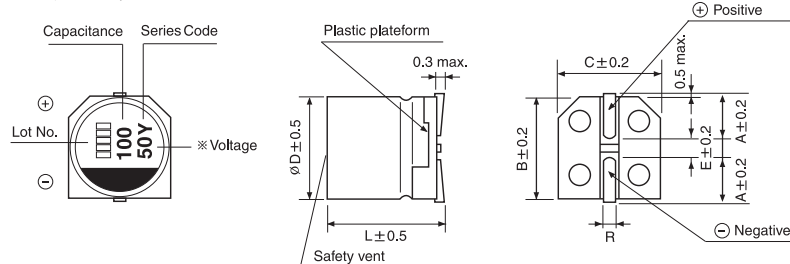
Unit : mm

( $\varnothing 6.3, \varnothing 8 \times 6.2$ )

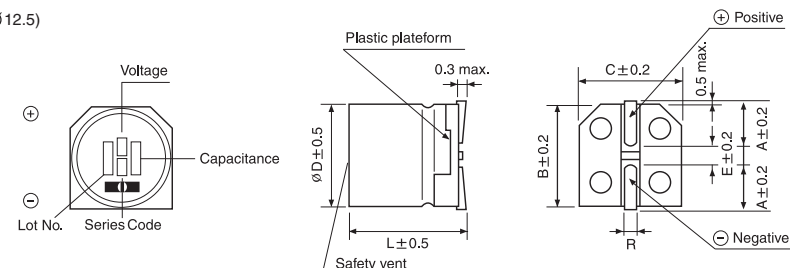


$\varnothing D \times L$	A	B	C	E	R
6.3 × 5.8	2.4	6.6	6.6	2.2	0.5~0.8
6.3 × 7.7	2.4	6.6	6.6	2.2	0.5~0.8
8 × 6.2	3.3	8.3	8.3	2.3	0.5~0.8
8 × 10	2.9	8.3	8.3	3.1	0.8~1.1
10 × 10	3.2	10.3	10.3	4.5	0.8~1.1

( $\varnothing 8 \times 10, \varnothing 10 \times 10$ )



( $\varnothing 12.5$ )



**CZ** series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

$\mu F$ \ WV	6.3			10			16			25			35		
33							6.3×5.8	0.39	384	6.3×5.8	0.39	384	6.3×5.8	0.43	384
47				6.3×5.8	0.36	384	6.3×5.8	0.39	384	6.3×5.8	0.39	384	6.3×5.8	0.43	464
68	6.3×5.8	0.43	384	6.3×5.8	0.36	384	6.3×5.8	0.36	384	6.3×5.8	0.36	384	6.3×7.7	0.32	600
100	6.3×5.8	0.43	384	6.3×5.8	0.36	384	6.3×5.8	0.36	384	6.3×7.7	0.32	600	8×10	0.16	960
										8×6.2	0.26	500			
150	6.3×5.8	0.43	384	6.3×5.8	0.36	384	6.3×7.7	0.32	600	8×10	0.16	960	8×10	0.16	960
220	6.3×5.8	0.43	384	6.3×7.7	0.32	600	6.3×7.7	0.32	600	8×10	0.16	960	10×10	0.10	1360
				8×6.2	0.26	500	8×6.2	0.26	500						
330	6.3×7.7	0.32	600	8×10	0.16	960	8×10	0.16	960	10×10	0.10	1360			
	8×6.2	0.26	500												
470	8×10	0.16	960	8×10	0.16	960	10×10	0.08	1360	10×10	0.10	1360			
680	8×10	0.16	960	10×10	0.08	1360									
1000	10×10	0.08	1360												
1500	10×10	0.08	1360												

↑ ↑ ↑

— Ripple current (mA rms) at 105°C, 100kHz  
 — Impedance ( $\Omega$ ) at 20°C, 100kHz  
 — Case size  $\varnothing D \times L$  (mm)

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz $\leq$
Coefficient	0.35	0.50	0.64	0.83	1.00