

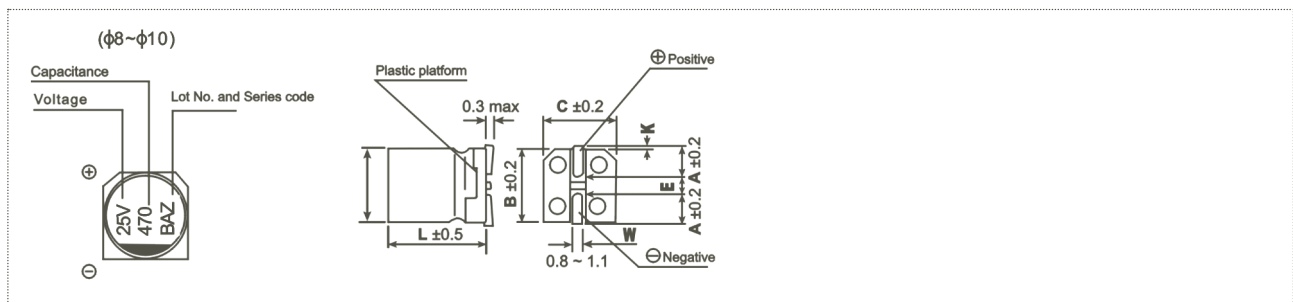
FEATURES

- Designed for surface mounting on high-density circuit board.
- Emboss carrier tape packing system is available for automatic insertion.



SPECIFICATIONS

Item	Performance Characteristics					
Operating Temperature Range	-40 to +105°C					
Rated Working Voltage Range	6.3 to 35V					
Nominal Capacitance Range	68 to 1500μF					
Capacitance Tolerance	±20% at 120Hz, +20°C					
Leakage Current	I ≤0.01CV or 3 (μA) whichever is greater measured after 2 minutes application of rated working voltage at +20°C					
tan δ (120Hz, +20°C)	Working Voltage (V)	6.3	10	16	25	35
	tan δ (max.)	0.26	0.19	0.16	0.14	0.12
Low Temperature Characteristics	Measurement frequency: 120Hz					
	Working Voltage (V)	6.3	10	16	25	35
	Z-25°C / Z+20°C	2	2	2	2	2
	Z-40°C / Z+20°C	3	3	3	3	3
Load Life	After applying rated voltage for 1,000 hours at +105°C ±2°C and then being stabilized at +20°C, the capacitors shall meet the following limits					
	Cap. change	: ±20% of the initial measured value				
	tan δ	: ≤200% of the initial specified value				
	DC leakage current	: ≤initial specified value				
Shelf Life	After 1,000 hours at +105°C ±2°C with no voltage applied and then being stabilized at +20°C, they meet the specified value in life characteristics listed above					
Resistance to Soldering Heat	After reflow and then being stabilized at +20°C, the capacitors shall meet the following limits					
	Cap. change	: ±10% of the initial measured value				
	tan δ	: ≤initial specified value				
	DC leakage current	: ≤initial specified value				
Industrial Standard	JIS C - 5101-4 (IEC 60384-4)					

CHIP TYPE

PART NUMBER SYSTEM (EXAMPLE : 6.3V 330 μ F)

1 2 3	4 5 6	7	8 9	10	11 12	13 14	
VZS	337	M	0J	F	T2	TR	
						Type (Taping Code)	
					Case Length (10.2mm)		
				Diameter (8mm)			
			Voltage (6.3V)				
		Tolerance (+20%)					
		Capacitance (330μF)					
Series							

STANDARD RATINGS

D	L	B, C	A	W	E	K
8.0	10.2	8.3	2.95	0.90 ± 0.2	3.1	0.70-0.40 to +0.20
10.0	10.2	10.3	3.2	0.90 ± 0.2	4.6	0.70-0.40 to +0.20

Unit: mm

Voltage (Code)		6.3V (0J)			10V (1A)			16V (1C)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
220	227				8 x 10.2	0.30	450	8 x 10.2	0.30	450
330	337	8 x 10.2	0.30	450				10 x 10.2	0.15	670
470	477				10 x 10.2	0.15	670	10 x 10.2	0.15	670
680	687							10 x 10.2	0.15	670
1000	108	10 x 10.2	0.15	670	10 x 10.2	0.15	670			
1500	158	10 x 10.2	0.15	670						

Maximum Allowable Ripple Current (mA_{rms}) at 105°C 100kHz

Case Size ΦD x L (mm)

Maximum Impedance (Ω) at 20°C 100kHz

Voltage (Code)		25V (1E)			35V (1V)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
68	686	8 x 10.2	0.30	450			
100	107	8 x 10.2	0.30	450	8 x 10.2	0.30	450
150	157				8 x 10.2	0.30	450
220	227	8 x 10.2	0.30	450	10 x 10.2	0.15	670
330	337	10 x 10.2	0.15	670	10 x 10.2	0.15	670
470	477	10 x 10.2	0.15	670			

Maximum Allowable Ripple Current (mA_{rms}) at 105°C 100kHz

Case Size ΦD x L (mm)

Maximum Impedance (Ω) at 20°C 100kHz

* Other voltage, capacitance, dimension are also available upon request.