

CHIP TYPE

CZ

 Series

Aluminum Electrolytic Capacitor Surface Mounted Device

Features

- Load Life : 105°C, 3000hours.
- For high density mounting.
- Low impedance at 100kHz

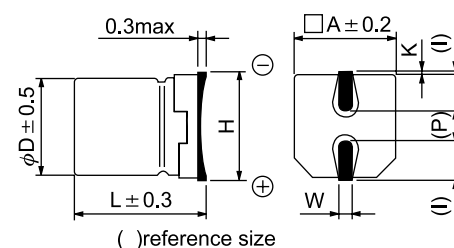


SPECIFICATION

Item	Characteristic							
Operation Temperature Range	-40 ~ +105°C							
Rated Working Voltage	6.3 ~ 50VDC							
Capacitance Tolerance (120Hz 20°C)	±20%(M)							
Leakage Current (20°C)	$I \leq 0.01CV$ or 3 (μA)				I : Leakage Current (μA)			
	*Whichever is greater after 2 minutes				C : Rated Capacitance (μF)			
					V : Working Voltage (V)			
Surge Voltage (20°C)	W.V.	6.3	10	16	25	35	50	
	S.V.	8	13	20	32	44	63	
Dissipation Factor ($\tan \delta$) (120Hz 20°C)	W.V.	6.3	10	16	25	35	50	
	$\tan \delta$	0.28	0.24	0.22	0.16	0.13	0.12	
Low Temperature Stability	Impedance ratio at 120Hz							
	Rated Voltage (V)	6.3	10	16	25	35	50	
	-25°C / +20°C	4	3	2	2	2	2	
	-40°C / +20°C	10	7	5	3	3	3	
Load Life	After 3000 hours application of W.V. and +105°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage \leq rate working voltage)							
	Capacitance Change	$\leq \pm 30\%$ of initial value						
	Dissipation Factor	$\leq 300\%$ of initial specified value						
	Leakage current	\leq initial specified value						
Shelf Life	At +105°C, no voltage application after 1000 hours, the capacitor shall meet the limits for load life characteristics. (With voltage treatment)							
Resistance to Soldering Heat	Capacitor placed on a 250°C hot plate for 30 seconds with their electrode terminals facing downward will fulfill the following conditions after being cooled to room temperature.							
	Capacitance Change	$\leq \pm 10\%$ of initial value						
	Dissipation Factor	\leq initial specified value						
	Leakage current	\leq initial specified value						

DIMENSIONS (mm)

D	L	A	H	I	W	P	K
4.0	5.8	4.3	5.5MAX	1.8	0.65±0.1	1.0	0.35 ^{+0.15} _{-0.20}
5.0	5.8	5.3	6.5MAX	2.2	0.65±0.1	1.5	0.35 ^{+0.15} _{-0.20}
6.3	5.8	6.6	7.8MAX	2.6	0.65±0.1	2.1	0.35 ^{+0.15} _{-0.20}
6.3	7.7	6.6	7.8MAX	2.6	0.65±0.1	2.1	0.35 ^{+0.15} _{-0.20}
8.0	10.2	8.3	10.0MAX	3.4	0.90±0.2	3.1	0.70±0.2
10.0	10.2	10.3	12.0MAX	3.5	0.90±0.2	4.6	0.70±0.2



● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)

Max impedance : Ω 20°C 100kHz

Max ripple current : mA(rms) 105°C 100kHz

μF	V(Code) Item Code	6.3 (0J)			10 (1A)			16 (1C)			25 (1E)			35 (1V)			50 (1H)		
		DxL	IMP.	R.C.	DxL	IMP.	R.C.	DxL	IMP.	R.C.	DxL	IMP.	R.C.	DxL	IMP.	R.C.	DxL	IMP.	R.C.
10	100													5x5.8	1.30	95	6.3x5.8	2.00	70
22	220							5x5.8	1.30	95				5x5.8	0.70	140	6.3x5.8	2.00	70
33	330				5x5.8	1.30	95	6.3x5.8	0.70	140	6.3x5.8	0.70	140	6.3x7.7	0.70	140	6.3x7.7	1.60	100
														8x10.2	0.70	230			
47	470	5x5.8	1.30	95	6.3x5.8	0.70	140	6.3x5.8	0.70	140	6.3x5.8	0.70	230	6.3x7.7	0.70	230	6.3x7.7	1.60	100
																	8x10.2	0.34	350
100	101	6.3x5.8	0.70	140	6.3x5.8	0.70	140	6.3x5.8	0.70	140	6.3x7.7	0.70	230	6.3x7.7	0.70	230	8x10.2	0.34	350
																	8x10.2	0.18	670
150	151	6.3x5.8	0.70	140	6.3x5.8	0.70	140	6.3x7.7	0.70	230	8x10.2	0.16	600	8x10.2	0.16	600	10x10.2	0.18	670
220	221	6.3x5.8	0.70	230	6.3x7.7	0.70	230	6.3x7.7	0.70	230	8x10.2	0.16	600	8x10.2	0.16	600	10x10.2	0.18	670
					8x10.2	0.16	600	8x10.2	0.16	600	8x10.2	0.15	600	10x10.2	0.08	850			
330	331	6.3x7.7	0.70	230	8x10.2	0.16	600	8x10.2	0.16	600	8x10.2	0.15	600	10x10.2	0.08	850			
470	471	8x10.2	0.16	600	8x10.2	0.16	600	8x10.2	0.16	600									
1000	102	10x10.2	0.08	850															