

CHIP TYPE

CA Series

Surface-Mounted Device

JAMICON®

- Height : 5.4mm.
- Load life : 85°C 2000 hours.
- Low leakage current (0.5 μ A to 2.0 μ A max.)

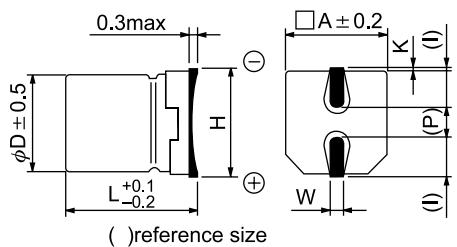


SPECIFICATION

Item	Characteristic											
Operation Temperature Range	-40 ~ +85°C											
Rated Working Voltage	6.3 ~ 50VDC											
Capacitance Tolerance (120Hz 20°C)	$\pm 20\%$ (M)											
Leakage Current (20°C)	$I \leq 0.002CV$ or 0.5 (μ A)					I : Leakage Current (μ A)						
	*Whichever is greater after 2 minutes					C : Rated Capacitance (μ F)	V : Working Voltage (V)					
Surge Voltage (20°C)	W.V.		6.3	10	16	25	35					
	S.V.		8	13	20	32	44					
Dissipation Factor (tan δ) (120Hz 20°C)	W.V.		6.3	10	16	25	35					
	tan $\delta\phi$		0.24	0.20	0.16	0.14	0.12					
Low Temperature Stability	Impedance ratio at 120Hz											
	Rated Voltage (V)			6.3	10	16	25					
	-25°C / +20°C			4	3	2	2					
	-40°C / +20°C			8	6	4	3					
Load Life	After 2000 hours application of W.V. and +85°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage \leq rate working voltage)											
	Capacitance Change		$\leq \pm 25\%$ of initial value									
	Dissipation Factor		$\leq 200\%$ of initial specified value									
	Leakage current		\leq initial specified value									
Shelf Life		At +85°C, no voltage application after 1000 hours, the capacitor shall meet the limits for load life characteristics. (With voltage treatment)										
Resistance to Soldering Heat		Capacitors 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	5.4	4.3	5.5MAX	1.8	0.65 ± 0.1	1.0	$0.35^{+0.15}_{-0.20}$
5.0	5.4	5.3	6.5MAX	2.2	0.65 ± 0.1	1.5	$0.35^{+0.15}_{-0.20}$
6.3	5.4	6.6	7.8MAX	2.6	0.65 ± 0.1	2.1	$0.35^{+0.15}_{-0.20}$



● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
 Max ripple current : mA(rms) 85°C 120Hz