

CHIP TYPE

CD
Series

Aluminum Electrolytic Capacitor
Surface Mounted Device

JAMICON®

Features

- Load Life : 105°C 2000~5000hours.
- For high density mounting.
- Low impedance at 100kHz.

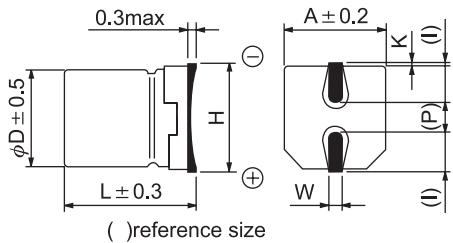


SPECIFICATION

Item	Characteristic											
Operation Temperature Range	-55 ~ +105°C											
Rated Working Voltage	6.3 ~ 50VDC											
Capacitance Tolerance (120Hz 20°C)	$\pm 20\%$ (M)											
Leakage Current (20°C)	$I \leq 0.01CV$ or $3 (\mu A)$					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					
	S.V.		8	13	20	32	44					
Dissipation Factor ($\tan \delta$) (120Hz 20°C)	W.V.		6.3	10	16	25	35					
	$\tan \delta$		0.28	0.24	0.20	0.16	0.13					
Impedance ratio at 120Hz												
Low Temperature Stability	Rated Voltage (V)		6.3	10	16	25	35					
	-25°C / +20°C		3	3	2	2	2					
	-55 °C / +20°C		7	7	5	3	3					
After 5000 hours ($\phi D \leq 6.3\text{mm}$ 2000 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)												
Load Life	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 ± 0.20
10.0	10.2	10.3	12.0MAX	3.5	0.90 ± 0.2	4.6	0.70 ± 0.20



● 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