

CHIP TYPE

CH Series

Surface Mounted Device

JAMICON®

CT ← CH → CL

Features

- Height : 6.1mm height Max.($\leq \phi 6.3$)
- Load life : 105°C 2000 hours.

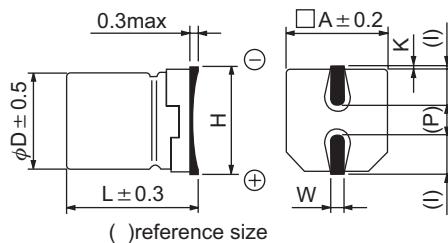


SPECIFICATION

Item	Characteristic							
Operation Temperature Range	$-55 \sim +105^{\circ}\text{C}$							
Rated Working Voltage	4 ~ 50VDC							
Capacitance Tolerance (120Hz 20°C)	$\pm 20\%(\text{M})$							
Leakage Current (20°C)	$I \leq 0.01CV$ or $3 (\mu\text{A})$						I : Leakage Current (μA)	
	*Whichever is greater after 2 minutes						C : Rated Capacitance (μF)	
Surge Voltage (20°C)	W.V.	4	6.3	10	16	25	35	50
	S.V.	5	8	13	20	32	44	63
Dissipation Factor ($\tan \delta$) (120Hz 20°C)	W.V.	4	6.3	10	16	25	35	50
	$\tan \delta$	$\phi 4 \sim \phi 6.3$	0.50	0.30	0.22	0.16	0.14	0.12
		$\phi 8 \sim \phi 10$	0.50	0.35	0.26	0.20	0.16	0.12
Low Temperature Stability	Impedance ratio at 120Hz							
	Rated Voltage (V)		4	6.3	10	16	25	35 ~ 50
	-25°C / +20°C		7	4	3	2	2	2
	-40°C / +20°C		15	8	6	4	4	3
Load Life	After 2000 hours application of WV at $+105^{\circ}\text{C}$ the capacitor shall meet the following limits.							
	Capacitance Change	$\leq \pm 25\%$ of initial value ($4\text{VV} \pm 35\%$)						
	Dissipation Factor	$\leq 200\%$ of initial specified value						
	Leakage current	\leq initial specified value						
Shelf Life		At $+105^{\circ}\text{C}$, 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	$0.35^{+0.15}_{-0.20}$
8.0	6.2	8.3	9.5MAX	3.4	0.65 ± 0.1	2.2	$0.35^{+0.15}_{-0.20}$
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

V(Code)	Item	Case size : D x L (mm)				Max ripple current : mA(rms) 105°C 120Hz			
		DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.
0.10	0R1								4x5.8 3
0.22	R22								4x5.8 4
0.33	R33								4x5.8 5
0.47	R47								4x5.8 6
1.0	010								4x5.8 8
2.2	2R2								4x5.8 12
3.3	3R3								4x5.8 15
4.7	4R7							4x5.8 15	4x5.8 20
6.8	6R8							4x5.8 18	5x5.8 22
10	100					4x5.8	20	5x5.8 25	5x5.8 26
22	220	4x5.8	20	4x5.8	24	5x5.8	30	6.3x5.8 34	6.3x5.8 42
33	330	4x5.8	25	4x5.8	30	5x5.8	37	6.3x5.8 48	6.3x5.8 50
47	470	4x5.8	30	5x5.8	41	6.3x5.8	50	6.3x5.8 55	8x6.2 75
100	101	5x5.8	49	6.3x5.8	70	6.3x5.8	75	8x10.2 120	8x10.2 140
150	151	6.3x5.8	70	8x6.2	95	8x6.2	110	8x10.2 150	8x10.2 170
220	221	6.3x5.8	85	8x10.2	140	8x10.2	160	10x10.2 210	10x10.2 230
330	331	8x10.2	140	8x10.2	170	8x10.2	200	10x10.2 260	
470	470	8x10.2	170	8x10.2	200	10x10.2	270		