CHIP TYPE

CS Series   Surface Mounted Device

JAMICON®

Features

- Height : 5.4mm.
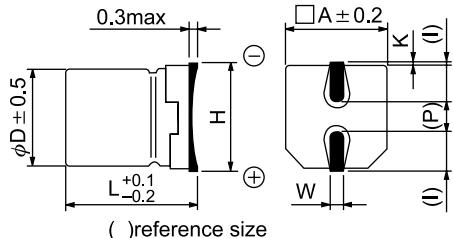- Load life : 85°C 2000 hours.

● SPECIFICATION

Item	Characteristic						
Operation Temperature Range	-40 ~ +85°C						
Rated Working Voltage	4 ~ 50VDC						
Capacitance Tolerance (120Hz 20°C)	±20%(M)						
Leakage Current (20°C)	I ≦0.01CV or 3 (μA) *Whichever is greater after 2 minutes I : Leakage Current (μA) C : Rated Capacitance (μF) V : Working Voltage (V)						
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 δ) (120Hz 20°C)	W.V.	4	6.3	10	16	25	35	50
	tan δ	0.35	0.26	0.20	0.16	0.14	0.12	0.12

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 δ) (120Hz 20°C)	W.V.	4	6.3	10	16	25	35	50
	tan δ	0.35	0.26	0.20	0.16	0.14	0.12	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 W.V. and +85°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage ≦ rate working voltage)	
	Capacitance Change	≦±20% of initial value
	Dissipation Factor	≦200% of initial specified value
	Leakage current	≦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 folowing conditions after being cooled to room temperature.	
	Capacitance Change	≦±10% of initial value
	Dissipation Factor	≦initial specified value
	Leakage current	≦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

0.3max   □A ± 0.2
φD ± 0.5   H   L +0.1 -0.2

( )reference size

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● CASE SIZE & MAX RIPPLE CURRENT

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

µF	Code Item	4 (0G) DxL	R.C.	6.3 (0J) DxL	R.C.	10 (1A) DxL	R.C.	16 (1C) DxL	R.C.	25 (1E) DxL	R.C.	35 (1V) DxL	R.C.	50 (1H) DxL	R.C.
0.1	0R1													4x5.4	3
0.22	R22													4x5.4	4
0.33	R33													4x5.4	5
0.47	R47													4x5.4	6
1.0	010													4x5.4	9
2.2	2R2													4x5.4	13
3.3	3R3													4x5.4	16
4.7	4R7									4x5.4	17	4x5.4	19	5x5.4	21
10	100							4x5.4	24	5x5.4	29	5x5.4	31	6.3x5.4	36
22	220			4x5.4	27	5x5.4	36	5x5.4	40	6.3x5.4	49	6.3x5.4	55		
33	330	4x5.4	29	5x5.4	38	5x5.4	44	6.3x5.4	55	6.3x5.4	60				
47	470	4x5.4	35	5x5.4	46	6.3x5.4	60	6.3x5.4	65						
100	101	5x5.4	60	6.3x5.4	70	6.3x5.4	80	6.3x5.4	90						
220	221	6.3x5.4	80												