

RADIAL TYPE

ST

Series

5mmL 105°C, Wide Temperature Range

JAMICON

- Wide temperature range series with 5mm height.
- Corresponding product to RoHS

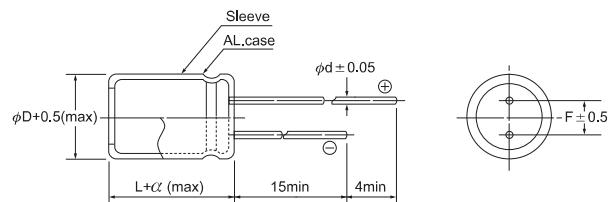


SPECIFICATION

Item	Characteristic							
Operation Temperature Range	-55 ~ +105°C							
Rated Working Voltage	4 ~ 50VDC							
Capacitance Tolerance (120Hz 20°C)	±20%(M)							
Leakage Current (20°C)	$I \leq 0.01CV$ or $3 (\mu A)$ *Whichever is greater after 2 minutes						I : Leakage Current (μA)	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 δ) (120Hz 20°C)	W.V.	4	6.3	10	16	25	35	50
	$\tan \delta$	0.37	0.28	0.24	0.20	0.16	0.13	0.12
Low Temperature Stability		Impedance ratio at 120Hz						
		Rated Voltage (V)	4	6.3	10	16	25	35
		-25°C / +20°C	6	3	3	2	2	2
		-40°C / +20°C	12	8	5	4	3	3
Load Life		After 1000 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	$\leq \pm 25\%$ of initial value					
		Dissipation Factor	$\leq 200\%$ of 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)						

DIMENSIONS (mm)

ϕD	4	5	6.3
F	1.5	2.0	2.5
d	0.45	0.45	0.45
α	1.0	1.0	1.0



CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
Max ripple current : mA(rms) 105°C 120Hz

μF	V(DC)	4		6.3		10		16		25		35		50	
μF	Item	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.
1.0														→	4x5 8
2.2														→	4x5 11
3.3														→	4x5 14
4.7								→	4x5 14	4x5 15	4x5 15	5x5 19			
10						→	4x5 19	5x5 23	5x5 25	5x5 25	6.3x5 31				
22	4x5	19	4x5	23	5x5	29	5x5	32	6.3x5	39	6.3x5	42			
33	5x5	26	5x5	32	5x5	35	6.3x5	45	6.3x5	48					
47	5x5	32	5x5	38	6.3x5	48	6.3x5	55							
100	6.3x5	55	6.3x5	65											

All blank voltage on sleeve marking is the same voltage as " → " point to.