

RADIAL TYPE

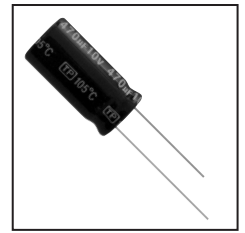
TP

Series

Standard, Wide Temperature Range

JAMICON®

- High temperature 105°C and high reliability.

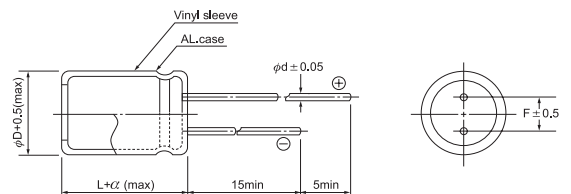


● SPECIFICATION

Item	Characteristic				
Operation Temperature Range	-55 ~ +105°C				
Rated Working Voltage	10 ~ 35VDC				
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) V : Working Voltage (V)				
Surge Voltage (20°C)	W.V.	10	16	25	35
	S.V.	13	20	32	44
Dissipation Factor (tan δ) (120Hz 20°C)	Add 0.02 per 1000 μF for more than 1000 μF				
	W.V.	10	16	25	35
	tan δ	0.20	0.16	0.14	0.12
Low Temperature Stability	Impedance ratio at 120Hz				
	Rated Voltage (V)	10	16	25	35
	-25°C / +20°C	3	2	2	2
	-55°C / +20°C	4	4	4	4
Load Life	After hours ($\phi D \leq 10mm$ 6000 hours, $\phi D \geq 12.5mm$ 10000 hours, $\phi D \geq 16mm$ 20000 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	$\leq \pm 30\%$ 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)				

● DIMENSIONS (mm)

ϕD	10	12.5	16	18
F	5.0	5.0	7.5	7.5
d	0.6	0.6	0.8	0.8
α	1.5	1.5	1.5	1.5



● RIPPLE CURRENT COEFFICIENTS

Temperature(°C)	≤ 65	85	105
Multiplier	2.12	1.69	1.00

Frequency(Hz)	120	1k	10k	100k
Multiplier	0.75	0.80	0.90	1.00

● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
 Max ripple current : mA(rms) 105°C 100kHz

μF	V(Code)		10 (1A)		16 (1C)		25 (1E)		35 (1V)	
	Code	Item	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.
1	010								10x12.5	60
2.2	2R2								10x12.5	90
3.3	3R3								10x12.5	110
4.7	4R7								10x12.5	140
10	100								10x12.5	300
22	220								10x12.5	350
33	330								10x12.5	380
47	470								10x12.5	420
100	101						10x12.5	420	10x20	670
220	221				10x16	520	12.5x20	860	12.5x25	1080
330	331		10x16	510	10x20	680	12.5x25	1170	16x25	1330
470	471		10x20	680	12.5x20	1000	16x25	1500	16x31.5	1690
1000	102		12.5x25	1050	16x25	1410	16x31.5	1640	18x40	2170
2200	222		16x31.5	1740	18x.35.5	2120				
3300	332		18x35.5	2050	18x40	2160				
4700	472		18x40	2290						

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