

# RADIAL TYPE

# TH Series

High Ripple Current, High Reliability

JAMICON®

WG ← TH → TL

- High ripple current, low E.S.R. and long life
- Suitable for electronic ballast, adaptor and switching power

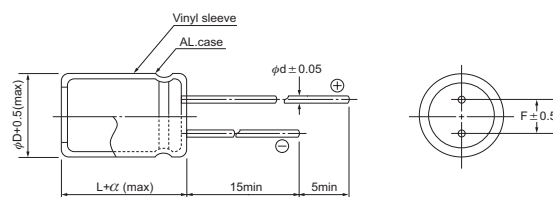


## ● SPECIFICATION

Item	Characteristic						
Operation Temperature Range	-40 ~ +105°C			-25 ~ +105°C			
Rated Working Voltage	160 ~ 400VDC			450VDC			
Capacitance Tolerance (120Hz 20°C)	±20%(M)						
Leakage Current (20°C)	$I \leq 0.06CV + 10 (\mu A)$ Whichever is greater after 2 minutes			I : Leakage Current ( $\mu A$ ) C : Rated Capacitance ( $\mu F$ ) V : Working Voltage (V)			
Surge Voltage (20°C)	W.V.	160	200	250	400	450	
	S.V.	200	250	300	450	500	
Dissipation Factor (tan $\delta$ ) (120Hz 20 °C)	W.V.	160	200	250	400	450	
	tan $\delta$	0.15	0.15	0.15	0.24	0.24	
Low Temperature Stability	Impedance ratio at 120Hz						
	Rated Voltage (V)	160 ~ 250			400	450	
	-25°C / +20°C	3			6	6	
	-40°C / +20°C	4			6	—	
Load Life	After ( $\phi D \leq 8mm$ 2000 hours, $\phi D \geq 10mm$ 3000 hours) application of WV at +105°C the capacitor shall meet the following limits.						
	Capacitance Change	$\leq \pm 20\%$ of initial value					
	Dissipation Factor	$\leq \pm 200\%$ 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)

$\phi D$	10	12.5	16	18
F	5.0	5.0	7.5	7.5
d	0.6	0.6	0.8	0.8
$\alpha$	1.5	1.5	1.5	1.5



## ● RIPPLE CURRENT COEFFICIENTS

Temperature(°c)	65	75	85	95	105
Multiplier	1.8	1.65	1.50	1.25	1.00

Frequency (Hz)	120	1K	10K	100K	
W.V.	Multiplier				
160~450	$\phi D=10mm$	0.25	0.61	0.88	1.0
	$\phi D>10mm$	0.35	0.66	0.89	1.0

● 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

μF	V(Code) Code	Item	160 (2C)			200 (2D)			250 (2E)		
			DxL	IMP.	R.C.	DxL	IMP.	R.C.	DxL	IMP.	R.C.
4.7		4R7							10x16	3.45	150
10		100	10x16	1.47	220	10x16	1.47	220	10x20	2.70	240
22		220	10x20	0.80	350	10x20	0.80	350	12.5x20	1.47	380
33		330	10x20	0.62	430	12.5x20	0.62	460	12.5x25	1.15	510
47		470	12.5x20	0.50	550	12.5x25	0.50	610	16x25	0.92	610
68		680	12.5x20	0.39	660	12.5x25	0.39	730	16x31.5	0.71	810
100		101	16x25	0.32	890	16x31.5	0.32	980	18x35.5	0.59	1110
220		221	16x35.5	0.17	1540	18x35.5	0.17	1640	18x40	0.31	1730

μF	V(Code) Code	Item	400 (2G)			450 (2W)		
			DxL	IMP.	R.C.	DxL	IMP.	R.C.
2.2		2R2				10x16	4.94	110
3.3		3R3	10x20	2.60	170	10x20	4.11	150
4.7		4R7	10x25	2.20	220	12.5x20	3.47	190
10		100	12.5x25	1.72	340	12.5x25	2.72	300
22		220	16x25	0.94	510	16x31.5	1.48	500
33		330	16x31.5	0.73	690	16x31.5	1.15	620
47		470	16x31.5	0.59	820	18x31.5	0.92	780
68		680	16x31.5	0.46	990			
100		101	18x31.5	0.38	1280			
120		121	18x35.5	0.32	1480			
150		151	18x40	0.26	1740			
180		181	18x40	0.23	1910			