

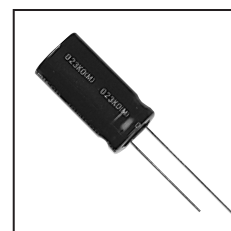
# RADIAL TYPE

# TX Series

## High Ripple Current, High Reliability

# JAMICON®

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

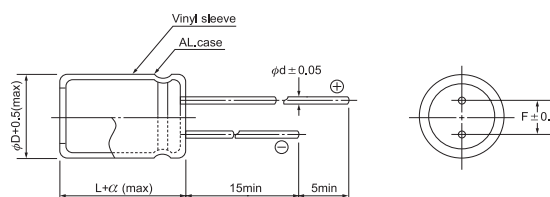


### ● SPECIFICATION

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	350	400	450	
	S.V.	200	250	300	400	450	500	
Dissipation Factor (tan $\delta$ ) (120Hz 20°C)	W.V.	160	200	250	350	400	450	
	tan $\delta$	0.15	0.15	0.15	0.24	0.24	0.24	
Low Temperature Stability	Impedance ratio at 120Hz							
	Rated Voltage (V)	160 ~ 250			350 ~ 400		450	
	-25°C / +20°C	3			6		6	
	-40°C / +20°C	4			6		—	
Load Life	After hours ( $\phi D \leq 8mm$ 3000 hours $\phi D \geq 10mm$ 5000 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	$\leq \pm 20\%$ of initial value						
	Dissipation Factor	$\leq 200\%$ of initial specified value						
	Leakage current	$\leq$ initial specified value						
Shelf Life	At + 105°C no voltage application after 1000 hours. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hrs and not more than 48 hrs before measurement. Cap & DF shall meet the limits for load life characteristics, Leakage current $\leq 500\%$ of the initial specified value							

### ● 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	1.80	1.65	1.50	1.25	1.00

Frequency (Hz)	120	1k	10k	100k
W.V.	Multiplier			
160~450	0.50	0.80	0.90	1.00

● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)  
 Max impedance :  $\Omega$  20°C 100kHz  
 Max ripple current : mA(rms) 105°C 100kHz

$\mu$ F	V(Code)		160 (2C)			200 (2D)			250 (2E)		
	Code	Item	DxL	IMP.	R.C.	DxL	IMP.	R.C.	DxL	IMP.	R.C.
10	100	100						→	10x20	3.18	240
22	220	10x20	1.47	350	10x20	1.47	350	12.5x20	1.74	380	
33	330	10x20	1.15	430	12.5x20	1.15	460	12.5x25	1.35	510	
47	470	12.5x20	0.92	550	12.5x20	0.92	550	12.5x25	1.08	610	
68	680	12.5x25	0.71	730	12.5x25	0.71	730	16x25	0.84	730	
100	101	16x25	0.59	890	16x25	0.59	890	16x31.5	0.70	980	
150	151	16x31.5	0.41	1210	16x31.5	0.41	1210	18x31.5	0.49	1290	
220	221	16x31.5	0.31	1460	18x35.5	0.31	1640	18x40	0.36	1730	
330	331	18x35.5	0.25	2010							

$\mu$ F	V(Code)		350 (2V)			400 (2G)			450 (2W)		
	Code	Item	DxL	IMP.	R.C.	DxL	IMP.	R.C.	DxL	IMP.	R.C.
3.3	3R3							→	10x20	4.47	150
4.7	4R7							→	12.5x20	3.77	190
10	100	10x20	2.94	220	10x20	2.94	290	12.5x25	2.95	300	
22	220	12.5x20	1.60	340	12.5x25	1.60	460	16x25	1.61	450	
33	330	12.5x25	1.25	460	12.5x25	1.25	620	16x31.5	1.25	620	
47	470	16x25	1.00	560	16x25	1.00	740	18x31.5	1.01	780	
68	680	16x31.5	0.78	740	16x31.5	0.78	990	18x35.5	0.78	990	
100	101	18x35.5	0.65	1010	18x35.5	0.65	1350				

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