

# TXK

## +105°C Long Life Radial Lead Aluminum Electrolytic Capacitors



*For Ballast applications*

### FEATURES

- High Frequency
- Low Impedance
- Extended Life
- Voltage Range: 160 WVDC to 450 WVDC
- Capacitance Range: 3.3  $\mu$ F to 330  $\mu$ F

### SPECIFICATIONS

Capacitance Tolerance		$\pm 20\%$ at 120Hz, 20°C														
Operating Temperature Range		-40°C to +105°C					-25°C to +105°C									
Dissipation Factor 120Hz, 20°C	WVDC	160	200	250	350	400	450									
	$\tan \delta$	.15	.15	.15	.24	.24	.24									
Impedance Ratio (Max.) @120Hz	WVDC	160	200	250	350	400	450									
	-25°C/20°C	3	3	3	6	6	6									
	-40°C/20°C	4	4	4	6	6	-									
Leakage Current	WVDC	< 450 WVDC														
	Time	2 minutes														
		.06 CV +10 $\mu$ A														
Load Life	5000 hours at +105°C with rated voltage and ripple applied Capacitors will meet the requirements listed below.															
	Capacitance change Dissipation factor Leakage current	$\leq 25\%$ of initial measured value $\leq 200\%$ of initial specified value $\leq 100\%$ of specified value														
Shelf Life	1,000 hours at +105°C with no voltage applied. Units will meet load life specifications															
Ripple Current Multipliers	Temperature (°C)						Frequency (Hz)									
		+65	+75	+85	+95	+105	120	1K	10K	100K						
	D=10	1.8	1.65	1.5	1.25	1.0	.25	.61	.88	1.0						
D>10	1.8	1.65	1.5	1.25	1.0	.35	.66	.89	1.0							

### SPECIAL ORDER OPTIONS

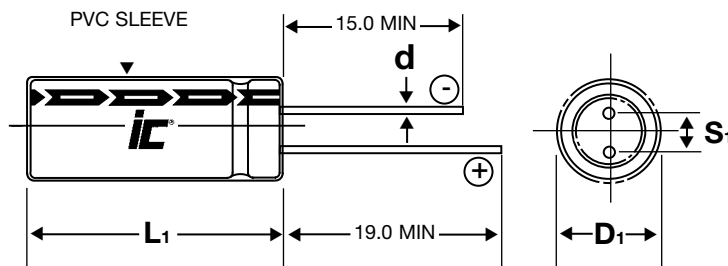
(See pages 33 thru 37)

- Special tolerances:  $\pm 10\%$  (K), -10% + 30% (Q)
- Tape and Reel/Ammo Pack
- Cut, Formed, Cut and Formed, and Snap In Leads
- Epoxy end seal
- Polyester sleeve

## PHYSICAL DIMENSIONS

WVDC (SV) / (μF)	160 (200)	200 (250)	250 (300)	350 (400)	400 (450)	450 (500)
3.3						10x20
4.7						13x20
10			10x20	10x20	10x20	13x25
22	10x20	10x20	13x20	12x20	13x25	16x25
33	10x20	12.5x20	13x25	12x25	13x25	16x31.5
47	13x20	12.5x20	12x25	16x25	16x25	18x31.5
68	7x25	12.5x25	16x25	16x31.5	16x31.5	18x35.5
100	16x25	12x25	16x31.5	18x35.5	18x35.5	
150	16x31.5	16x31.5	18x31.5			
220	16x31.5	18x35.5	18x40			
330	18x35.5					

D x L (mm)



NOTE: Case Vent is standard on all diameter ≥8.0mm

### LEAD INFORMATION VS. CASE DIAMETER

D	10.0	12.5	16.0	18.0
d	0.6	0.6	0.8	0.8
S	5.0	5.0	7.5	7.5

L<sub>1</sub> = L + 1.5 Max.  
D<sub>1</sub> = D + 0.5 mm Max.  
S<sub>1</sub> = S ± 0.5 mm Max.

# TXK

+105°C, High  
Voltage Low  
Impedance Long  
Life, 5000 hours

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (mΩ) 120 Hz, +20°C	Impedance Ω +20°C/- 10°C 100kHz	Maximum RMS Ripple Current (A) 100 kHz, +105°C	Dims DxL (mm)
3.3	450	<a href="#">335TXK450M</a>	120.572		150	10x20
4.7	450	<a href="#">475TXK450M</a>	84.657		190	12.5x20
10	250	<a href="#">106TXK250M</a>	24.868		240	10x20
10	350	<a href="#">106TXK350M</a>	39.789		220	10x20
10	400	<a href="#">106TXK400M</a>	39.789		290	10x20
10	450	<a href="#">106TXK450M</a>	39.789		300	12.5x25
22	160	<a href="#">226TXK160M</a>	11.304		350	10x20
22	200	<a href="#">226TXK200M</a>	11.304		350	10x20
22	250	<a href="#">226TXK250M</a>	11.304		380	12.5x20
22	350	<a href="#">226TXK350M</a>	18.086		340	12.5x20
22	400	<a href="#">226TXK400M</a>	18.086		460	12.5x25
22	450	<a href="#">226TXK450M</a>	18.086		450	16x25
33	160	<a href="#">336TXK160M</a>	7.536		430	10x20
33	200	<a href="#">336TXK200M</a>	7.536		460	12.5x20
33	250	<a href="#">336TXK250M</a>	7.536		510	12.5x25
33	350	<a href="#">336TXK350M</a>	12.057		460	12.5x25
33	400	<a href="#">336TXK400M</a>	12.057		620	12.5x25
33	450	<a href="#">336TXK450M</a>	12.057		620	16x31.5
47	160	<a href="#">476TXK160M</a>	5.291		550	12.5x20
47	200	<a href="#">476TXK200M</a>	5.291		550	12.5x20
47	250	<a href="#">476TXK250M</a>	5.291		610	12.5x25

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (mΩ) 120 Hz, +20°C	Impedance Ω +20°C/- 10°C 100kHz	Maximum RMS Ripple Current (A) 100 kHz, +105°C	Dims DxL (mm)
47	350	<a href="#">476TXK350M</a>	8.466		560	16x25
47	400	<a href="#">476TXK400M</a>	8.466		740	16x25
47	450	<a href="#">476TXK450M</a>	3.657		780	18x31.5
68	160	<a href="#">686TXK160M</a>	3.657		730	12.5x25
68	200	<a href="#">686TXK200M</a>	3.657		730	12.5x25
68	250	<a href="#">686TXK250M</a>	3.657		730	16x25
68	350	<a href="#">686TXK350M</a>	5.851		740	16x31.5
68	400	<a href="#">686TXK400M</a>	5.851		990	16x31.5
68	450	<a href="#">686TXK450M</a>	5.851		990	18x35.5
100	160	<a href="#">107TXK160M</a>	2.487		890	16x25
100	200	<a href="#">107TXK200M</a>	2.487		890	16x25
100	250	<a href="#">107TXK250M</a>	2.487		980	16x31.5
100	350	<a href="#">107TXK350M</a>	3.979		1010	18x35.5
100	400	<a href="#">107TXK400M</a>	3.979		1350	18x35.5
150	160	<a href="#">157TXK160M</a>	1.658		1210	16x31.5
150	200	<a href="#">157TXK200M</a>	1.658		1210	16x31.5
150	250	<a href="#">157TXK250M</a>	1.658		1290	18x31.5
220	160	<a href="#">227TXK160M</a>	1.13		1460	16x31.5
220	200	<a href="#">227TXK200M</a>	1.13		1640	18x35.5
220	250	<a href="#">227TXK250M</a>	1.13		1730	18x40
330	160	<a href="#">337TXK160M</a>	0.754		2010	18x35.5

**IC** ILLINOIS CAPACITOR, INC.

3757 W. Touhy Ave., Lincolnwood, IL 60712 • (847)675-1760 • Fax (847) 675-2850 • www.illcap.com