

# 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	6.3	10	16	25	35	50					
	-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 or 10 $\mu$ A										
Load Life	<b>5000 hours at +105°C with rated WVDC</b> 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

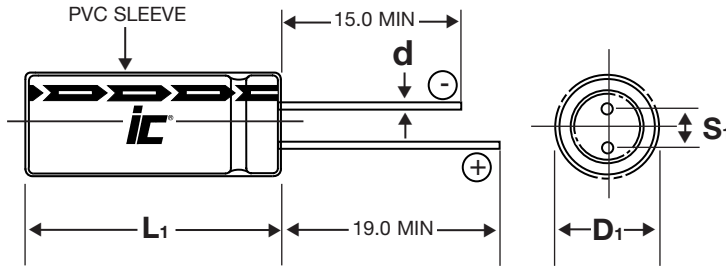


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## PHYSICAL DIMENSIONS

WVDC (SV) / (μF)	160 (200)	200 (250)	250 (300)	350 (400)	400 (450)	450 (500)
3.3						10x21
4.7						13x21
10			10x21	10x21	10x21	13x26
22	10x21	10x21	13x21	13x21	13x26	16x25
33	10x21	13x21	13x26	13x26	13x26	16x32
47	13x21	13x21	13x26	16x25	16x25	18x32
68	13x26	13x26	16x25	16x32	16x32	18x35
100	16x25	16x25	16x32	18x35	18x35	
150	16x32	16x32	18x32			
220	16x32	18x35	18x40			
330	18x35					

D x L (mm)



NOTE: Case Vent is standard on all diameter  $\geq 8.0 \text{ mm}$

### LEAD INFORMATION VS. CASE DIAMETER

D	10.0	13	16.0	18.0
d	0.6	0.6	0.8	0.8
S	5.0	5.0	7.5	7.5

$L_1 = L + 2.0 \text{ Max.}$   
 $D_1 = D + 0.5 \text{ mm Max.}$   
 $S_1 = S \pm 0.5 \text{ mm Max.}$

## STANDARD PART LISTING

Capacitance (µF)	WVDC	IC <sup>®</sup> PART NUMBER	Maximum ESR Ω 120Hz, +20°C	Impedance Ω 20°C 100kHz	Maximum RMS Ripple Current (mA) +105°C 100kHz	Dimensions DxL (mm)
3.3	450	335TXK450M	120.572	4.47	130	10X21
4.7	450	475TXK450M	84.657	3.77	170	13X21
10	250	106TXK250M	24.868	3.18	200	10X21
10	350	106TXK350M	39.789	2.94	180	10X21
10	400	106TXK400M	39.789	2.94	180	10X21
10	450	106TXK450M	39.789	2.95	280	13X26
22	160	226TXK160M	11.304	1.47	300	10X21
22	200	226TXK200M	11.304	1.47	300	10X21
22	250	226TXK250M	11.304	1.74	340	13X21
22	350	226TXK350M	18.086	1.6	310	13X21
22	400	226TXK400M	18.086	1.6	310	13X26
22	450	226TXK450M	18.086	1.61	510	16X25
33	160	336TXK160M	7.536	1.15	360	10X21
33	200	336TXK200M	7.536	1.15	420	13X21
33	250	336TXK250M	7.536	1.35	460	13X26
33	350	336TXK350M	12.057	1.25	420	13X26
33	400	336TXK400M	12.057	1.25	420	13X26
33	450	336TXK450M	12.057	1.25	620	16X32
47	160	476TXK160M	5.291	.92	500	13X21
47	200	476TXK200M	5.291	.92	500	13X21
47	250	476TXK250M	5.291	1.08	550	13X26

Capacitance (µF)	WVDC	IC <sup>®</sup> PART NUMBER	Maximum ESR Ω 120Hz, +20°C	Impedance Ω 20°C 100kHz	Maximum RMS Ripple Current (mA) +105°C 100kHz	Dimensions DxL (mm)
47	350	476TXK350M	8.466	1	560	16X25
47	400	476TXK400M	8.466	1	560	16X25
47	450	476TXK450M	8.466	1.01	790	18X32
68	160	686TXK160M	3.657	.71	660	13X26
68	200	686TXK200M	3.657	.71	660	13X26
68	250	686TXK250M	3.657	.84	730	16X25
68	350	686TXK350M	5.851	.78	750	16X32
68	400	686TXK400M	5.851	.78	750	16X32
68	450	686TXK450M	5.851	.78	990	18X35
100	160	107TXK160M	2.487	.59	890	16X25
100	200	107TXK200M	2.487	.59	890	16X25
100	250	107TXK250M	2.487	.7	990	16X32
100	350	107TXK350M	3.979	.65	1010	18X35
100	400	107TXK400M	3.979	.65	1010	18X35
150	160	157TXK160M	1.658	.41	1210	16X32
150	200	157TXK200M	1.658	.41	1210	16X32
150	250	157TXK250M	1.658	.49	1300	18X32
220	160	227TXK160M	1.130	.31	1470	16X32
220	200	227TXK200M	1.130	.31	1630	18X35
220	250	227TXK250M	1.130	.36	1730	18X40
330	160	337TXK160M	0.754	.25	2000	18X35