

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 μ F to 330 μ F

SPECIFICATIONS

Capacitance Tolerance		±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 δ	.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 +10µA													
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					≤ 25% of initial measured value ≤ 200% of initial specified value ≤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

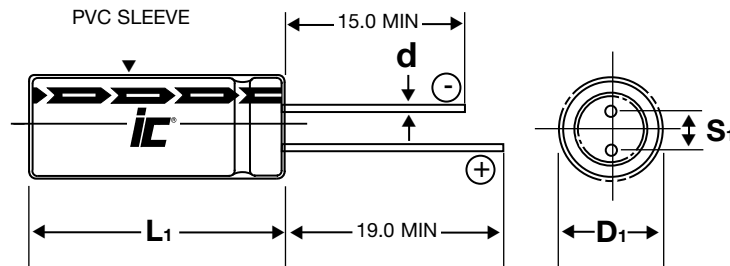
(See pages 33 thru 37)

- 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)



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

L₁=L + 1.5 Max.
D₁=D + 0.5 mm Max.
S₁=S ± 0.5 mm Max.

STANDARD PART LISTING

Capacitance (μ F)	WVDC	ic [®] 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	10X20
4.7	450	475TXK450M	84.657	3.77	170	12.5X20
10	250	106TXK250M	24.868	3.18	240	10X20
10	350	106TXK350M	39.789	2.94	180	10X20
10	400	106TXK400M	39.789	2.94	180	10X20
10	450	106TXK450M	39.789	2.95	280	12.5X26
22	160	226TXK160M	11.304	1.47	300	10X20
22	200	226TXK200M	11.304	1.47	300	10X20
22	250	226TXK250M	11.304	1.74	340	12.5X20
22	350	226TXK350M	18.086	1.6	310	12.5X20
22	400	226TXK400M	18.086	1.6	310	12.5X25
22	450	226TXK450M	18.086	1.61	510	16X25
33	160	336TXK160M	7.536	1.15	360	10X20
33	200	336TXK200M	7.536	1.15	420	12.5X20
33	250	336TXK250M	7.536	1.35	460	12.5X25
33	350	336TXK350M	12.057	1.25	420	12.5X25
33	400	336TXK400M	12.057	1.25	420	12.5X25
33	450	336TXK450M	12.057	1.25	620	16X31.5
47	160	476TXK160M	5.291	.92	500	12.5X20
47	200	476TXK200M	5.291	.92	500	12.5X20
47	250	476TXK250M	5.291	1.08	550	12.5X25

Capacitance (μ F)	WVDC	ic [®] 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	18X31.5
68	160	686TXK160M	3.657	.71	660	12.5X25
68	200	686TXK200M	3.657	.71	660	13X25
68	250	686TXK250M	3.657	.84	730	16X25
68	350	686TXK350M	5.851	.78	750	16X31.5
68	400	686TXK400M	5.851	.78	750	16X31.5
68	450	686TXK450M	5.851	.78	990	18X33.5
100	160	107TXK160M	2.487	.59	890	16X25
100	200	107TXK200M	2.487	.59	890	16X25
100	250	107TXK250M	2.487	.7	990	16X31.5
100	350	107TXK350M	3.979	.65	1010	18X35.5
100	400	107TXK400M	3.979	.65	1010	18X35.5
150	160	157TXK160M	1.658	.41	1210	16X31.5
150	200	157TXK200M	1.658	.41	1210	16X31.5
150	250	157TXK250M	1.658	.49	1300	18X31.5
220	160	227TXK160M	1.130	.31	1470	16X31.5
220	200	227TXK200M	1.130	.31	1630	18X33.5
220	250	227TXK250M	1.130	.36	1730	18X40
330	160	337TXK160M	0.754	.25	2000	18X33.5