



Radial Lead Aluminum Electrolytic Capacitors

+105°C Low Impedance

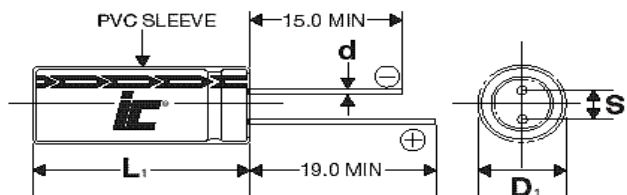
FEATURES

Standardized Case Sizes - High Ripple Current - Multiple Case Sizes

APPLICATIONS

Bypass - Coupling - Filtering - De-coupling

Operating Temperature Range		-55°C to +105°C								
Capacitance Tolerance		+20% at 120 Hz, 20°C								
Surge Voltage	WVDC	6.3	10	16	25	35	50	63	100	
	SVDC	7.9	13	20	32	44	63	79	125	
Dissipation Factor	WVDC	6.3	10	16	25	35	50	63	100	
	Tan δ	.22	.19	.16	.14	.12	.1	.1	.1	
		Add .02 for every 1000uF above 1000uF								
Leakage Current		2 Minutes								
		.01CV or 3uA, Whichever is greater								
Low Temperature Stability Impedance Ratio (120 Hz)	WVDC	6.3	10	16	25	35	50	63	100	
	-25°C to +20°C	4	3	2	2	2	2	2	2	
	-40°C to +20°C	8	6	4	3	3	3	3	3	
Load Life		5000 hours at 105°C with rated WVDC and ripple current applied (4000 hrs for D=10, 3000 Hrs for D=8, 2000 Hrs for D≤6.3)								
		Capacitance Change				≤20% of initial measured value				
		Dissipation Factor				≤200% of maximum specified value				
		Leakage Current				≤100% of maximum specified value				
Shelf Life		1000 hours at 105°C with no voltage applied								
		Capacitance Change				≤25% initial measured value				
		Dissipation Factor				≤200% of maximum specified value				
		Leakage Current				≤100% of maximum specified value				
Ripple Current Multipliers						Frequency (Hz)				
		Capacitance		50	120	1k	10k	100k		
		C≤180		.4	.4	.75	.9	1.0		
		220<C≤560		.5	.5	.85	.94	1.0		
		680<C≤1800		.6	.6	.87	.95	1.0		
		2200<C≤3900		.75	.75	.9	.95	1.0		
		C>4700		.85	.85	.95	.98	1.0		



D	5	6.3	8	10	12.5	16	18
S	2.0	2.5	3.5	5.0	5.0	7.5	7.5
d	0.5	0.5	0.6	0.6	0.6	0.8	0.8

L₁=L+1.5 mm Max. (L<20mm)

L₁=L+2.0 mm Max. (L≥20mm)

D₁=D+0.5 mm Max.

S₁=S+0.5 mm

KXM

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

Capacitance (μF)	WVDC	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	Impedance Ω +20°C/ -10°C, 100kHz	Maximum RMS Ripple Current (mA) 100 kHz, +105°C	Dims DxDL (mm)
470	100	477KXM100M	0.3527	0.049/0.132	1920	16x40
470	100	477KXM100MRV	0.3527	0.056/0.157	1775	18x35
560	6.3	567KXM6R3M	0.6513	0.072/0.22	760	8x11.5
560	35	567KXM035M	0.3553	0.022/0.066	2150	10x25
560	50	567KXM050M	0.296	0.023/0.059	2410	12.5x25
560	63	567KXM063M	0.296	0.036/0.072	1950	12.5x40
560	63	567KXM063MRU	0.296	0.04/0.08	1725	18x20
560	100	567KXM100M	0.296	0.043/0.116	2050	18x35
680	10	687KXM010M	0.4632	0.056/0.17	995	8x16
680	10	687KXM010MLN	0.4632	0.077/0.194	760	10x12.5
680	16	687KXM016MLQ	0.3901	0.074/0.184	880	10x16
680	16	687KXM016M	0.3901	0.041/0.13	1250	8x20
680	25	687KXM025M	0.3413	0.023/0.069	1820	10x20
680	35	687KXM035M	0.2926	0.021/0.053	2150	12.5x20
680	50	687KXM050M	0.2438	0.021/0.052	2860	12.5x30
680	63	687KXM063M	0.195	0.033/0.066	2050	16x30
680	63	687KXM063MRV	0.195	0.036/0.072	1950	18x25
680	100	687KXM100M	0.195	0.038/0.103	2300	18x40
820	6.3	827KXM6R3M	0.4448	0.056/0.17	995	8x16
820	25	827KXM025M	0.283	0.022/0.066	2150	10x25
820	50	827KXM050M	0.2022	0.019/0.023	3960	12.5x35
820	63	827KXM063M	0.2022	0.03/0.06	2225	16x35
820	63	827KXM063MRV	0.2022	0.032/0.064	2100	18x30
1000	6.3	108KXM6R3M	0.3647	0.053/0.16	1030	10x12.5
1000	10	108KXM010M	0.315	0.041/0.13	1250	8x20
1000	10	108KXM010MLQ	0.315	0.063/0.158	1430	10x16
1000	16	108KXM016M	0.2653	0.023/0.069	1820	10x20
1000	25	108KXM025M	0.199	0.021/0.053	2360	12.5x20
1000	35	108KXM035M	0.1989	0.018/0.045	2770	12.5x25
1000	50	108KXM050M	0.1658	0.021/0.056	2850	16x25
1000	63	108KXM063M	0.1658	0.028/0.056	2375	16x40
1000	63	108KXM063MRV	0.1658	0.03/0.06	2280	18x35
1200	6.3	128KXM6R3M	0.3039	0.041/0.13	1250	8x20
1200	6.3	128KXM6R3MLQ	0.3039	0.058/0.144	1430	10x16
1200	10	128KXM010M	0.2901	0.023/0.069	1820	10x20
1200	16	128KXM016M	0.221	0.022/0.066	2150	10x25
1200	25	128KXM025M	0.1934	0.05/0.124	1730	12.5x20
1200	35	128KXM035M	0.1658	0.016/0.041	3290	12.5x30
1200	50	128KXM050M	0.1382	0.042/0.083	2710	16x30
1200	63	128KXM063M	0.1243	0.026/0.052	2500	18x40
1500	6.3	158KXM6R3M	0.2432	0.023/0.069	1820	10x20
1500	10	158KXM010M	0.21	0.022/0.066	2150	10x25

Capacitance (μF)	WVDC	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	Impedance Ω +20°C/ -10°C, 100kHz	Maximum RMS Ripple Current (mA) 100 kHz, +105°C	Dims DxDL (mm)
1500	16	158KXM016M	0.1768	0.021/0.053	2360	12.5x20
1500	25	158KXM025M	0.1547	0.018/0.045	2770	12.5x25
1500	35	158KXM035MQV	0.1326	0.04/0.079	2700	16x25
1500	35	158KXM035M	0.1326	0.015/0.039	3400	12.5x35
1500	50	158KXM050M	0.1326	0.035/0.071	3010	16x35
1800	25	188KXM025M	0.1289	0.016/0.041	3290	12.5x30
1800	35	188KXM035M	0.1105	0.016/0.043	3460	16x25
2200	6.3	228KXM6R3M	0.1658	0.022/0.066	1980	10x25
2200	10	228KXM010M	0.1733	0.021/0.053	2150	12.5x20
2200	16	228KXM016M	0.1206	0.018/0.045	2770	12.5x25
2200	25	228KXM025M	0.1055	0.015/0.039	3400	12.5x35
2200	25	228KXM025MQV	0.1055	0.032/0.065	2390	16x25
2200	35	228KXM035M	0.0904	0.031/0.077	2880	16x30
2200	50	228KXM050M	0.1055	0.027/0.055	3690	18x35
2700	16	278KXM016M	0.0982	0.016/0.041	3290	12.5x30
2700	25	278KXM025M	0.086	0.016/0.043	3000	16x25
3300	6.3	338KXM6R3M	0.1105	0.021/0.053	2080	12.5x20
3300	10	338KXM010M	0.0955	0.018/0.045	2770	12.5x25
3300	16	338KXM016M	0.0804	0.015/0.039	3150	12.5x35
3300	16	338KXM016MQV	0.0804	0.029/0.057	2200	16x25
3300	25	338KXM025M	0.0703	0.027/0.054	3020	16x30
3300	35	338KXM035M	0.0603	0.026/0.064	3650	18x35
3300	50	338KXM050M	0.0804	0.023/0.046	4350	18x40
3900	6.3	398KXM6R3M	0.0935	0.018/0.045	2470	12.5x25
3900	10	398KXM010M	0.0808	0.016/0.041	3290	12.5x30
3900	16	398KXM016M	0.068	0.016/0.043	3460	16x25
4700	6.3	478KXM6R3M	0.0776	0.016/0.041	3290	12.5x30
4700	10	478KXM010M	0.067	0.015/0.039	3400	12.5x35
4700	10	478KXM010MQV	0.067	0.025/0.051	2350	16x25
4700	16	478KXM016M	0.0564	0.024/0.048	2670	16x30
4700	25	478KXM025M	0.0494	0.023/0.046	3700	18x35
5600	6.3	568KXM6R3M	0.0651	0.015/0.039	3400	12.5x35
5600	10	568KXM010M	0.0562	0.016/0.043	3018	16x25
6800	6.3	688KXM6R3M	0.0536	0.016/0.043	3250	16x25
6800	10	688KXM010M	0.0463	0.023/0.045	2850	16x30
6800	16	688KXM016M	0.039	0.022/0.043	3280	18x35
10000	6.3	109KXM6R3M	0.0365	0.022/0.043	3000	16x30
10000	10	109KXM010M	0.0315	0.021/0.041	3430	18x35
10000	16	109KXM016M	0.0265	0.019/0.039	3670	18x40
15000	6.3	159KXM6R3M	0.0243	0.02/0.041	3610	18x35
15000	10	159KXM010M	0.021	0.019/0.039	3850	18x40

Mouser Electronics

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