



KBM

Radial Lead Aluminum Electrolytic Capacitors

Long Life



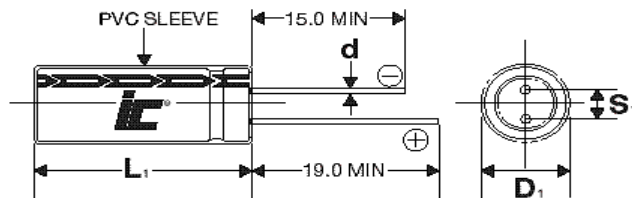
FEATURES

Long Life - High temperature - RoHS Compliant

APPLICATIONS

Switching power supplies - Power Adaptors - Electronic Ballasts

Operating Temperature Range		-40°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 120 Hz, 20°C	WVDC	6.3	10	16	25	35	50	63	100
	tan δ	.22	.19	.16	.14	.12	.1	.09	.08
Leakage current		Add .02 for every 1000uF above 1000uF .01CV or 3uA, Whichever is greater 2 Minutes							
Low temperature stability Impedance ratio (120 Hz)	Rated WVDC	6.3	10	16	25 to 100				
	-25°C to +20°C	4	3	2	2				
	-40°C to +20°C	8	6	4	3				
Load Life	After application of rated voltage applied at 105°C								
	WVDC	6.3 to 10				16 to 100			
		D _{≤6.3mm} 4000 Hrs. D _{=8 to 10mm} 5000 Hrs. D _{> 12mm} 8000 Hrs.				D _{≤6.3mm} 5000 Hrs. D _{=8 to 10mm} 7000 Hrs. D _{> 12mm} 10000 Hrs.			
	Capacitance change	<25% of initial measured value							
	Dissipation factor	<200% of maximum specified value							
Shelf Life	1000 hours at 105°C with no voltage applied								
	Capacitance change	<25% of initial measured value							
	Dissipation factor	<200% of maximum specified value							
	Insulation resistance	>100% of maximum specified value							
Ripple Current Multipliers	Frequency (Hz)				Temperature (°C)				
	Capacitance (uF)	120	1k	10k	100k	≤65	75	85	
	.47 to 10	.42	.6	.8	1.0	2.12	1.69	1.0	
	22 to 33	.55	.75	.9	1.0	2.12	1.69	1.0	
	47 to 330	.7	.85	.95	1.0	2.12	1.69	1.0	
	470 to 1000	.75	.9	.98	1.0	2.12	1.69	1.0	
2200 to 15000	.8	.95	1.0	1.0	2.12	1.69	1.0		



Lead spacing VS. Case diameter

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
B	1.5	1.5	1.5	1.5	1.5	1.5	1.5

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

ILLINOIS CAPACITOR

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KBM

+105°C, High Frequency Low Impedance/ESR,8000 to 10000 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 (mA) 100 kHz, +105°C	Dims DxL (mm)
0.47	100	474KBM100M	282.333	5.301	26	5x11
0.47	50	474KBM050M	352.916	5.658	25	5x11
1	50	105KBM050M	165.87	3.989	36	5x11
1	100	105KBM100M	132.696	3.737	37	5x11
2.2	100	225KBM100M	60.317	2.265	55	5x11
2.2	50	225KBM050M	75.396	2.417	55	5x11
3.3	50	335KBM050M	50.264	2.014	65	5x11
3.3	100	335KBM100M	40.211	1.887	65	5x11
4.7	100	475KBM100M	28.233	1.59	80	5x11
4.7	50	475KBM050M	35.292	1.697	80	5x11
10	50	106KBM050M	16.587	1.33	110	5x11
10	100	106KBM100M	13.27	1.246	130	6.3x11
10	63	106KBM063M	14.928	1.246	120	5x11
22	63	226KBM063M	6.786	0.679	180	6.3x11
22	100	226KBM100M	6.032	0.679	190	8x11.5
22	50	226KBM050M	7.54	0.725	140	5x11
33	50	336KBM050M	5.026	0.564	200	6.3x11
33	35	336KBM035M	6.032	0.635	160	5x11
33	100	336KBM100M	4.021	0.317	270	10x12.5
33	63	336KBM063M	4.524	0.528	250	8x11.5
47	63	476KBM063M	3.176	0.424	280	8x11.5
47	100	476KBM100M	2.823	0.254	350	10x16
47	50	476KBM050M	3.529	0.453	230	6.3x11
47	25	476KBM025M	4.941	0.539	170	5x11
100	25	107KBM025M	2.322	0.348	280	6.3x11
100	10	107KBM010M	3.152	0.482	210	5x11
100	50	107KBM050M	1.659	0.292	420	8x14
100	35	107KBM035M	1.99	0.329	370	8x11.5
100	100	107KBM100M	1.327	0.164	640	12.5x20
100	63	107KBM063M	1.493	0.192	530	10x16
220	63	227KBM063M	0.679	0.099	960	10x25
220	100	227KBM100M	0.603	0.085	1200	16x25
220	35	227KBM035M	0.905	0.128	640	10x12.5
220	50	227KBM050M	0.754	0.113	760	10x16
220	10	227KBM010M	1.433	0.249	350	6.3x11
220	25	227KBM025M	1.056	0.18	480	8x11.5
330	25	337KBM025M	0.704	0.108	700	10x12.5
330	16	337KBM016M	0.804	0.152	520	8x11.5

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (mΩ) 120 Hz, +20°C	Impedance Ω +20°C/-10°C 100kHz	Maximum RMS Ripple Current (mA) 100 kHz, +105°C	Dims DxL (mm)
330	6.3	337KBM6R3M	1.106	0.246	410	6.3x11
330	50	337KBM050M	0.503	0.091	1020	10x20
330	35	337KBM035M	0.603	0.102	870	10x16
330	100	337KBM100M	0.402	0.068	1470	16x25
330	63	337KBM063M	0.452	0.079	1210	12.5x20
470	63	477KBM063M	0.318	0.065	1480	12.5x25
470	35	477KBM035M	0.423	0.084	1070	10x20
470	50	477KBM050M	0.353	0.074	1290	12.5x20
470	16	477KBM016M	0.565	0.093	690	10x12.5
470	25	477KBM025M	0.494	0.088	860	10x16
470	10	477KBM010M	0.671	0.138	560	8x11.5
1000	10	108KBM010M	0.315	0.063	1070	10x16
1000	25	108KBM025M	0.232	0.057	1580	12.5x20
1000	16	108KBM016M	0.265	0.06	1230	10x20
1000	6.3	108KBM6R3M	0.365	0.066	920	10x12.5
1000	50	108KBM050M	0.166	0.048	2390	16x25
1000	35	108KBM035M	0.199	0.054	1940	12.5x25
1000	63	108KBM063M	0.149	0.042	2900	16x35.5
2200	35	228KBM035M	0.121	0.031	3070	16x31.5
2200	50	228KBM050M	0.106	0.027	3650	18x35.5
2200	16	228KBM016M	0.151	0.034	1960	12.5x25
2200	25	228KBM025M	0.136	0.032	2540	16x25
2200	10	228KBM010M	0.173	0.036	1720	12.5x20
3300	10	338KBM010M	0.126	0.03	2170	12.5x25
3300	25	338KBM025M	0.101	0.027	3180	16x31.5
3300	16	338KBM016M	0.111	0.029	2570	16x25
3300	6.3	338KBM6R3M	0.131	0.032	1910	12.5x20
3300	35	338KBM035M	0.09	0.026	3870	18x35.5
4700	16	478KBM016M	0.085	0.024	3100	16x31.5
4700	25	478KBM025M	0.078	0.023	3880	18x35.5
4700	10	478KBM010M	0.095	0.025	2730	16x25
6800	10	688KBM010M	0.076	0.023	3300	16x31.5
6800	16	688KBM016M	0.068	0.022	3800	18x35.5
6800	6.3	688KBM6R3M	0.073	0.024	2920	16x25
10000	6.3	109KBM6R3M	0.066	0.021	3450	16x31.5
10000	10	109KBM010M	0.061	0.02	3940	18x35.5
15000	6.3	159KBM6R3M	0.055	0.02	4130	18x35.5