



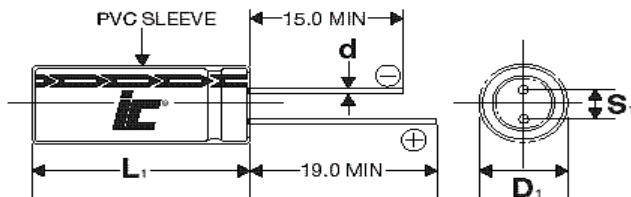
### FEATURES

Long Life - High temperature - RoHS Compliant

### APPLICATIONS

Switching power supplies - Power Adaptors - Electronic Ballasts

<b>Operating Temperature Range</b>		<b>-40°C to +105°C</b>								
<b>Capacitance Tolerance</b>		<b>+20% at 120 Hz, 20°C</b>								
<b>Surge Voltage</b>	<b>WVDC</b>	<b>6.3</b>	<b>10</b>	<b>16</b>	<b>25</b>	<b>35</b>	<b>50</b>	<b>63</b>	<b>100</b>	
	<b>SVDC</b>	7.9	13	20	32	44	63	79	125	
<b>Dissipation Factor 120 Hz, 20°C</b>	<b>WVDC</b>	<b>6.3</b>	<b>10</b>	<b>16</b>	<b>25</b>	<b>35</b>	<b>50</b>	<b>63</b>	<b>100</b>	
	<b>tan δ</b>	.22	.19	.16	.14	.12	.1	.09	.08	
<b>Leakage current</b>		Add .02 for every 1000uF above 1000uF .01CV or 3uA, Whichever is greater 2 Minutes								
<b>Low Temperature Stability Impedance Ratio (120 Hz)</b>	<b>Rated WVDC</b>	<b>6.3</b>	<b>10</b>	<b>16</b>	<b>25 to 100</b>					
	<b>-25°C to +20°C</b>	4	3	2	2					
	<b>-40°C to +20°C</b>	8	6	4	3					
<b>Load Life</b>	After application of rated voltage applied at 105°C									
	<b>WVDC</b>	<b>6.3 to 10</b>				<b>16 to 100</b>				
	<b>Capacitance change</b>	D ≤ 6.3mm 4000 Hrs. D = 8 to 10mm 6000 Hrs. D ≥ 12mm 8000 Hrs.				D ≤ 6.3mm 5000 Hrs. D = 8 to 10mm 7000 Hrs. D ≥ 12mm 10000 Hrs.				
	<b>Dissipation factor</b>	≤ 25% of initial measured value								
	<b>Leakage current</b>	≤ 200% of maximum specified value								
<b>Shelf Life</b>	<b>1000 hours at 105°C with no voltage applied</b>									
	<b>Capacitance change</b>	≤ 25% of initial measured value								
	<b>Dissipation factor</b>	≤ 200% of maximum specified value								
	<b>Insulation resistance</b>	≥ 100% of maximum specified value								
<b>Ripple Current Multipliers</b>	<b>Frequency (Hz)</b>									
	<b>Capacitance (uF)</b>	<b>120</b>	<b>1k</b>	<b>10k</b>	<b>100k</b>					
	<b>.47 to 180</b>	.4	.75	.9	1.0					
	<b>220 to 560</b>	.5	.85	.94	1.0					
	<b>680 to 1800</b>	.6	.87	.95	1.0					
	<b>2200 to 3900</b>	.75	.9	.88	1.0					
<b>4700 to 15000</b>	.85	.95	.98	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

L<sub>1</sub> = L + 1.5mm (L < 20mm) Max.

L<sub>1</sub> = L + 2mm (L ≥ 20mm) Max

D<sub>1</sub> = D + 0.5mm Max.

S<sub>1</sub> = S + 0.5 mm

# KBM

**+105°C, High Frequency Low Impedance/ESR, 8000 to 10000 hours**

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	Impedance Ω +20°C, 100kHz	Maximum RMS Ripple Current (mA) 100 kHz, +105°C	Dims DxDL (mm)
0.47	50	474KBM050M	352.737	5.5	20	5x11
0.47	100	474KBM100M	282.333	6	15	5x11
1	50	105KBM050M	165.786	3	45	5x11
1	100	105KBM100M	132.696	4.5	20	5x11
2.2	50	225KBM050M	75.3575	2.5	60	5x11
2.2	100	225KBM100M	60.317	3	30	5x11
3.3	50	335KBM050M	50.2383	2.2	65	5x11
3.3	100	335KBM100M	40.211	2.7	40	5x11
4.7	50	475KBM050M	35.2737	1.9	100	5x11
4.7	100	475KBM100M	28.233	2.5	65	5x11
10	50	106KBM050M	16.5786	1.5	130	5x11
10	63	106KBM063M	14.9208	1.5	105	5x11
10	100	106KBM100M	13.2629	1.2	140	6.3x11
15	100	156KBM100MEBB	8.8419	1	140	6.3x11
22	50	226KBM050M	7.5357	0.7	200	5x11
22	63	226KBM063M	6.7822	0.96	200	6.3x11
22	100	226KBM100M	6.032	0.7	210	8x11.5
33	35	336KBM035M	6.032	0.58	210	5x11
33	50	336KBM050M	5.0238	0.6	280	6.3x11
33	63	336KBM063MEBB	4.5214	0.96	200	6.3x11
33	100	336KBM100M	4.021	0.5	240	10x12.5
47	25	476KBM025M	4.941	0.58	210	5x11
47	50	476KBM050M	3.5274	0.35	290	6.3x11
47	63	476KBM063M	3.1746	0.4	360	8x11.5
47	100	476KBM100MGU	2.823	0.34	400	10x12.5
68	63	686KBM063MFH	2.1942	0.3	420	8x11.5
68	100	686KBM100GBW	1.95	0.3	460	10x16
100	10	107KBM010M	3.152	0.58	210	5x11
100	25	107KBM025M	2.322	0.22	350	6.3x11
100	35	107KBM035M	1.99	0.16	460	8x11.5
100	50	107KBM050MFH	1.6579	0.16	600	8x11.5
100	63	107KBM063MGU	1.4921	0.1	685	10x12.5
100	100	107KBM100MTJG	1.327	0.18	820	12.5x20
100	100	107KBM100M	1.327	0.18	820	12.5x20
220	10	227KBM010M	1.433	0.22	340	6.3x11
220	25	227KBM025M	1.056	0.13	640	8x11.5
220	35	227KBM035M	0.905	0.08	910	10x12.5
220	35	227KBM035MFBW	0.905	0.087	900	8x16
220	50	227KBM050M	0.7536	0.064	1050	10x16
220	63	227KBM063M	0.6782	0.08	1100	10x25
270	35	277KBM035MFJG	0.7368	0.069	1000	8x20
330	6.3	337KBM6R3M	1.106	0.21	340	6.3x11
330	16	337KBM016M	0.804	0.1	640	8x11.5

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	Impedance Ω +20°C, 100kHz	Maximum RMS Ripple Current (mA) 100 kHz, +105°C	Dims DxDL (mm)
330	35	337KBM035M	0.603	0.06	1210	10x16
330	50	337KBM050MGJD	0.5024	0.055	1480	10x25
330	63	337KBM063M	0.4521	0.075	1100	12.5x20
330	100	337KBM100M	0.402	0.07	1300	16x25
470	10	477KBM010M	0.671	0.13	640	8x11.5
470	25	477KBM025M	0.494	0.06	1210	10x16
470	35	477KBM035M	0.423	0.046	1400	10x20
470	50	477KBM050M	0.3527	0.045	1670	12.5x20
470	63	477KBM063M	0.1492	0.065	1800	12.5x25
470	63	477KBM063MTAG	0.1492	0.06	360	12.5x30
680	63	687KBM063MKJD	0.219	0.05	2000	16x25
820	63	827KBM063MLJD	0.182	0.048	2200	18x25
1000	6.3	108KBM6R3MFBW	0.365	0.08	850	8x16
1000	6.3	108KBM6R3M	0.365	0.08	870	10x12.5
1000	10	108KBM010M	0.315	0.06	1210	10x16
1000	10	108KBM010MGJG	0.315	0.069	1050	8x20
1000	16	108KBM016M	0.265	0.046	1400	10x20
1000	25	108KBM025M	0.232	0.035	1900	12.5x20
1000	35	108KBM035M	0.199	0.027	2130	12.5x25
1000	50	108KBM050M	0.1658	0.025	2410	16x25
1000	63	108KBM063M	0.1492	0.04	2500	16x35
1200	63	128KBM063MLAG	0.152	0.03	2600	18x30
2200	6.3	228KBM6R3MGJD	0.1959	0.042	1650	10x25
2200	10	228KBM010M	0.173	0.035	1900	12.5x20
2200	16	228KBM016M	0.151	0.027	2230	12.5x25
2200	25	228KBM025M	0.136	0.025	2780	16x25
2200	35	228KBM035M	0.121	0.025	2610	16x30
2200	50	228KBM050M	0.1055	0.022	3180	18x35
3300	6.3	338KBM6R3M	0.1407	0.035	1900	12.5x20
3300	10	338KBM010M	0.126	0.03	2125	12.5x25
3300	16	338KBM016M	0.111	0.025	2420	16x25
3300	25	338KBM025M	0.101	0.02	2920	16x30
3300	35	338KBM035M	0.09	0.02	3200	18x35
4700	6.3	478KBM6R3MTJD	0.1058	0.03	2200	12.5x25
4700	10	478KBM010M	0.095	0.025	2400	16x25
4700	16	478KBM016M	0.085	0.02	2920	16x30
4700	25	478KBM025M	0.078	0.018	3520	18x35
6800	6.3	688KBM6R3M	0.073	0.025	2400	16x25
6800	10	688KBM010M	0.076	0.02	2920	16x30
6800	16	688KBM016M	0.068	0.018	3520	18x35
10000	6.3	109KBM6R3M	0.066	0.02	2920	16x30
10000	10	109KBM010M	0.061	0.018	3520	18x35