KBM

Radial Lead Aluminum Electrolytic Capacitors

Long Life

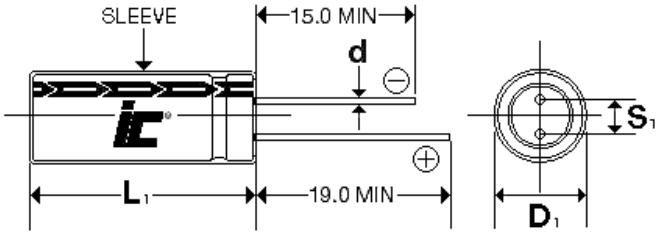
FEATURES	Long Life - High Temperature – RoHS Compliant
APPLICATIONS	Switching Power Supplies – Power Adaptors – Electronic Ballasts

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
		Add .02 for every 1000µF above 1000µF							
Leakage current		.01CV or 3µA, 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 6000 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	
	Leakage Current	-100% 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	
	Leakage Current	-100% of maximum specified value	

Ripple Current Multipliers		**Frequency (Hz)**			
	Capacitance (µF)	**120**	**1k**	**10k**	**100k**
	.47 to 180	.4	.75	.9	1.0
	220 to 560	.5	.85	.94	1.0
	680 to 1800	.6	.87	.95	1.0
	2200 to 3900	.75	.9	.95	1.0
	4700 to 15000	.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

L_1=L+1.5mm (L<20mm) Max.
L_1=L+2mm (L≥20mm) Max
D_1=D+0.5mm Max.
S_1=S+0.5 mm

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KBM

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

WVDC	Capacitance (µF)	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 DxL (mm)
6.3	330	337KBM6R3M	1.106	0.21	340	6.3x11
6.3	1000	108KBM6R3MFBW	0.365	0.08	850	8x16
6.3	1000	108KBM6R3M	0.365	0.08	870	10x12.5
6.3	2200	228KBM6R3MGJD	0.1959	0.042	1650	10x25
6.3	3300	338KBM6R3M	0.1407	0.035	1900	12.5x20
6.3	4700	478KBM6R3MTJD	0.1058	0.03	2200	12.5x25
6.3	6800	688KBM6R3M	0.073	0.025	2400	16x25
6.3	10000	109KBM6R3M	0.066	0.02	2920	16x30
10	100	107KBM010M	3.152	0.58	210	5x11
10	220	227KBM010M	1.433	0.22	340	6.3x11
10	470	477KBM010M	0.671	0.13	640	8x11.5
10	1000	108KBM010MGJG	0.315	0.069	1050	8x20
10	1000	108KBM010M	0.315	0.06	1210	10x16
10	1500	158KBM010M	0.168	0.042	1650	10x25
10	2200	228KBM010M	0.173	0.035	1900	12.5x20
10	3300	338KBM010M	0.126	0.03	2125	12.5x25
10	4700	478KBM010M	0.095	0.025	2400	16x25
10	6800	688KBM010M	0.076	0.02	2920	16x30
10	10000	109KBM010M	0.061	0.018	3520	18x35
16	330	337KBM016M	0.804	0.1	640	8x11.5
16	1000	108KBM016M	0.265	0.046	1400	10x20
16	2200	228KBM016M	0.151	0.027	2230	12.5x25
16	3300	338KBM016M	0.111	0.025	2420	16x25
16	4700	478KBM016M	0.085	0.02	2920	16x30
16	6800	688KBM016M	0.068	0.018	3520	18x35
25	47	476KBM025M	4.941	0.58	210	5x11
25	100	107KBM025M	2.322	0.22	350	6.3x11
25	220	227KBM025M	1.056	0.13	640	8x11.5
25	470	477KBM025M	0.494	0.06	1210	10x16
25	1000	108KBM025M	0.232	0.035	1900	12.5x20
25	2200	228KBM025M	0.136	0.025	2780	16x25
25	3300	338KBM025M	0.101	0.02	2920	16x30
25	4700	478KBM025M	0.078	0.018	3520	18x35
35	33	336KBM035M	6.032	0.58	210	5x11
35	100	107KBM035M	1.99	0.16	460	8x11.5
35	150	157KBM035M	1.061	0.13	640	8x11
35	220	227KBM035MFBW	0.905	0.087	900	8x16
35	220	227KBM035M	0.905	0.08	910	10x12.5
35	270	277KBM035MFJG	0.7368	0.069	1000	8x20
35	330	337KBM035M	0.603	0.06	1210	10x16
35	470	477KBM035M	0.423	0.046	1400	10x20
35	1000	108KBM035M	0.199	0.027	2130	12.5x25
35	2200	228KBM035M	0.121	0.025	2610	16x30

WVDC	Capacitance (µF)	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 DxL (mm)
35	3300	338KBM035M	0.09	0.02	3200	18x35
50	1	105KBM050M	165.786	3	45	5x11
50	2.2	225KBM050M	75.3575	2.5	60	5x11
50	3.3	335KBM050M	50.2383	2.2	65	5x11
50	4.7	475KBM050M	35.2737	1.9	100	5x11
50	10	106KBM050M	16.5786	1.5	130	5x11
50	22	226KBM050M	7.5357	0.7	200	5x11
50	33	336KBM050M	5.0238	0.6	280	6.3x11
50	47	476KBM050M	3.5274	0.35	290	6.3x11
50	100	107KBM050MFH	1.6579	0.16	600	8x11.5
50	150	157KBM050M	0.8841	0.12	760	10x12
50	220	227KBM050M	0.7536	0.064	1050	10x16
50	330	337KBM050MGJD	0.5024	0.055	1480	10x25
50	470	477KBM050M	0.3527	0.045	1670	12.5x20
50	1000	108KBM050M	0.1658	0.025	2410	16x25
50	1500	158KBM050M	0.1105	0.19	3150	16x36
50	2200	228KBM050M	0.1055	0.022	3180	18x35
63	10	106KBM063M	14.9208	1.5	105	5x11
63	22	226KBM063M	6.7822	0.96	200	6.3x11
63	33	336KBM063MEBB	4.5214	0.96	200	6.3x11
63	47	476KBM063M	3.1746	0.4	360	8x11.5
63	68	686KBM063MFH	2.1942	0.3	420	8x11.5
63	100	107KBM063MGU	1.4921	0.1	685	10x12.5
63	220	227KBM063M	0.6782	0.08	1100	10x25
63	330	337KBM063M	0.4521	0.075	1100	12.5x20
63	470	477KBM063M	0.1492	0.065	1800	12.5x25
63	470	477KBM063MTAG	0.1492	0.06	360	12.5x30
63	680	687KBM063MKJD	0.219	0.05	2000	16x25
63	820	827KBM063MLJD	0.182	0.048	2200	18x25
63	1000	108KBM063M	0.1492	0.04	2500	16x35
63	1200	128KBM063MLAG	0.152	0.03	2600	18x30
100	1	105KBM100M	132.696	4.5	20	5x11
100	2.2	225KBM100M	60.317	3	30	5x11
100	3.3	335KBM100M	40.211	2.7	40	5x11
100	4.7	475KBM100M	28.233	2.5	65	5x11
100	10	106KBM100M	13.2629	1.2	140	6.3x11
100	15	156KBM100MEBB	8.8419	1	140	6.3x11
100	22	226KBM100M	6.032	0.7	210	8x11.5
100	33	336KBM100M	4.021	0.5	240	10x12.5
100	47	476KBM100MGU	2.823	0.34	400	10x12.5
100	68	686KBM100MGBW	1.95	0.3	460	10x16
100	100	107KBM100M	1.327	0.18	820	12.5x20
100	330	337KBM100M	0.402	0.07	1300	16x25

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