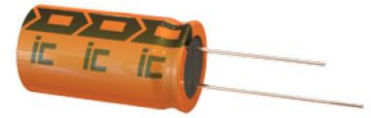




**THE DATASHEET OF
686KFM250MRU**





Radial Lead Aluminum Electrolytic Capacitors

Very Long Life

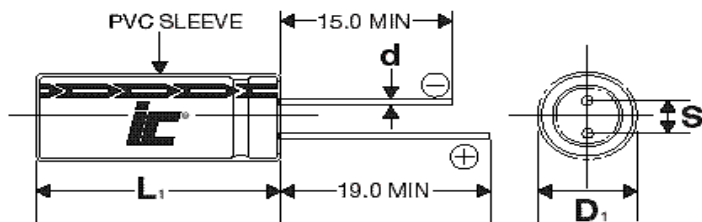
FEATURES

High Temperature - High Voltage – Long Life (10k Hrs)

APPLICATIONS

Switching Power Supplies – Electronic Ballasts

Operating Temperature Range		-40°C to +105°C					
Capacitance Tolerance		+20% at 120 Hz, 20°C					
Surge Voltage	WVDC	160	200	250	350	400	450
	SVDC	200	250	300	400	450	500
Dissipation Factor 120 Hz, 20°C	WVDC	160	200	250	350	400	450
	tan δ	.15	.15	.15	.2	.2	.2
Leakage Current		2 Minutes .02CV+10uA					
Low Temperature Stability Impedance Ratio (120 Hz)	Rated WVDC	160 to 250		350 to 400		450	
	-25°C to +20°C	6		7		9	
Load Life	10000 hours with rated voltage applied at 105°C						
	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	≤20% of initial measured value					
	Dissipation Factor	≤200% of maximum specified value					
	Leakage Current	≤100% of maximum specified value					
Ripple Current Multipliers	Frequency (Hz)						
	50	120	1k	10k	100k		
	0.4	0.5	0.8	0.9	1.0		



Lead spacing VS. Case diameter

D	10	12.5	16
S	5.0	5.0	7.5
d	0.6	0.6	0.8
B	1.5	1.5	1.5

$L_1 = L + 1.5\text{mm Max (} L < 20\text{mm)}$

$L_1 = L + 2\text{mm Max (} L \geq 20\text{mm)}$

$D_1 = D + 0.5\text{mm Max.}$

$S_1 = S + 0.5\text{ mm}$

KFM

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

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	Maximum Impedance (Ω) 100 kHz, 20°C	Maximum RMS Ripple Current (mA) 100 kHz, +105°C	Dims DxL (mm)
1	450	105KFM450MEBB	331.573	33	50	6.3x11
1.5	400	155KFM400MEBB	221.048	25	75	6.3x11
1.5	450	155KFM450MFH	221.048	25	80	8x11.5
1.8	400	185KFM400MEBB	184.207	25	85	6.3x11
1.8	450	185KFM450MFH	184.207	20	85	8x11.5
2.2	350	225KFM350MEBB	150.715	11.5	70	6.3x11
2.2	400	225KFM400MFH	150.715	20	90	8x11.5
2.2	450	225KFM450FBW	150.715	15.72	95	8x16
2.7	250	275KFM250MEBB	1.13	10.15	90	6.3x11
2.7	400	275KFM400MFH	122.805	15.72	95	8x11.5
2.7	450	275KFM450FBW	122.805	15.72	100	8x16
3.3	400	335KFM400MFH	100.477	15.72	100	8x11.5
3.3	450	335KFM450FBW	100.477	15.72	110	8x16
3.9	200	395KFM200MFH	63.764	10.15	105	8x11.5
3.9	400	395KFM400MFH	85.0187	15.72	105	8x11.5
3.9	450	395KFM450FBW	85.0187	15.72	120	8x16
4.7	400	475KFM400FBW	70.5474	12	115	8x16
4.7	400	475KFM400MFH	70.5474	12	110	8x11.5
4.7	450	475KFM450MFJG	70.5474	10.51	150	8x20
4.8	450	475KFM450MGBW	70.5474	10.51	150	10x16
5.6	250	565KFM250MFH	44.4071	4	150	8x11.5
5.6	400	565KFM400FBW	59.2094	10.51	160	8x16
5.6	400	565KFM400MGU	59.2094	10.5	180	10x12.5
5.6	450	565KFM450MFJG	59.2094	7.5	180	8x20
5.6	450	565KFM450MGBW	59.2094	7.5	180	10x16
6.8	250	685KFM250MFH	36.5705	6.7	160	8x11.5
6.8	350	685KFM350MGU	48.7607	10.51	170	10x12.5
6.8	400	685KFM400MFJG	48.7607	8.7	180	8x30
6.8	400	685KFM400M	48.7607	8.7	220	10x16
6.8	450	685KFM450M	48.7607	8.7	150	10x20
6.8	450	685KFM450MGBW	48.7607	7.5	220	10x16
8.2	350	825KFM400MGBW	40.4357	7.5	252	10x16
8.2	400	825KFM450MGJG	40.4357	6.2	265	10x20
8.2	450	825KFM350MFJG	40.4357	7.5	240	8x20
10	200	106KFM200MFBJ	24.868	3.65	175	8x12
10	200	106KFM200M	24.868	3.65	250	10x16
10	250	106KFM250MFBW	24.868	3.65	250	8x16
10	250	106KFM250MGU	24.868	3.65	250	10x12.5
10	350	106KFM350MGBW	33.1573	7.5	250	10x16
10	400	106KFM400M	33.1573	4.9	288	10x20
10	450	106KFM450M	33.1573	5.2	305	12.5x20
10	450	106KFM450MGJD	33.1573	6.2	305	10x25
12	200	126KFM200MFBW	20.7233	3.65	190	8x16
15	160	156KFM160MGU	16.5786	4.27	290	10x12.5
15	200	156KFM200MFBW	16.5786	3.65	360	8x16
15	250	156KFM250MFJG	16.5786	3.24	380	8x20
15	250	156KFM250MGBW	16.5786	3.24	390	10x16
15	350	156KFM350MGJD	22.1049	6.2	340	10x25
15	350	156KFM350MTBD	22.1049	6.2	340	12.5x15
15	450	156KFM450MFDG	22.1049	5.2	400	8x50
15	450	156KFM450MTJG	22.1049	5.2	400	12.5x20
18	160	186KFM160MFBW	13.8155	4.27	310	8x16
18	250	186KFM250MGBW	13.8155	3.24	410	10x16
18	350	186KFM350MGJD	18.4207	6.2	430	10x25
18	400	186KFM400MTJG	18.4207	4.2	470	12.5x20
18	450	186KFM450MTJD	18.4207	3.6	470	12.5x25
22	160	226KFM160MFJG	11.304	2.25	390	8x20
22	200	226KFM200MGBW	11.304	3.24	390	10x16

KFM

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

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	Maximum Impedance (Ω) 100 kHz, 20°C	Maximum RMS Ripple Current (mA) 100 kHz, +105°C	Dims DxL (mm)
22	200	226KFM200M	11.304	2.38	410	10x20
22	250	226KFM250MGJG	11.304	3.24	475	10x20
22	350	226KFM350M	15.0715	3.1	475	12.5x20
22	400	226KFM400MFDG	15.0715	2.25	475	8x50
22	400	226KFM400M	15.0715	2.25	475	12.5x25
22	400	226KFM400MQU	15.0715	2.25	430	16x20
22	450	226KFM450M	15.0715	2.02	560	16x25
22	450	226KFM450MRU	15.0715	2.02	560	18x20
22	450	226KFM450MGCG	15.0715	2.02	550	10x40
22	450	226KFM450MKJG	15.0715	2.02	550	16x20
27	160	276KFM160MGBW	9.2104	2.25	410	10x16
27	200	276KFM200MGJG	9.2104	2.38	410	10x20
33	160	336KFM160MTBD	7.5357	1.87	570	12.5x30
33	160	336KFM160M	7.5357	1.87	530	10x20
33	200	336KFM200MGJD	7.5357	1.65	530	10x25
33	250	336KFM250MFDG	7.5357	1.38	570	8x50
33	250	336KFM250M	7.5357	1.38	570	12.5x20
33	350	336KFM350MTJD	10.0477	2.25	570	12.5x25
33	350	336KFM350M	10.0477	2.25	500	16x20
33	400	336KFM400M	10.0477	1.7	610	16x25
33	400	336KFM400MRU	10.0477	1.7	640	18x20
33	450	336KFM450M	10.0477	1.82	700	16x31.5
33	450	336KFM450MRV	10.0477	1.82	700	18x25
33	450	336KFM450MGDG	10.0477	1.82	665	10x50
33	450	336KFM450MKJD	10.0477	1.82	665	16x25
39	160	396KFM160MGJD	52.91	1.87	590	10x25
39	160	396KFM160MTBD	52.91	1.87	590	12.5x15
39	200	396KFM200MTJG	52.91	1.38	620	12.5x30
47	160	476KFM160MGJD	5.2911	1.87	610	10x25
47	200	476KFM200MFDG	5.2911	1.38	650	8x50
47	200	476KFM200M	5.2911	1.38	630	12.5x20
47	250	476KFM250M	5.2911	1.38	650	12.5x25
47	250	476KFM250MQU	5.2911	1.38	720	16x20
47	250	476KFM250MTJD	5.2911	1.38	650	12.5x25
47	350	476KFM350M	7.0547	2.25	800	16x25
47	350	476KFM350MRU	7.0547	2.25	660	18x20
47	400	476KFM400M	7.0547	1.7	840	16x31.5
47	400	476KFM400MRV	7.0547	1.7	795	18x25
47	450	476KFM450M	7.0547	1.38	880	18x31.5
47	450	476KFM450MKAD	7.0547	1.38	730	16x35
47	450	476KFM450MTDG	7.0547	1.38	730	12.5x50
56	160	566KFM160MFDG	4.4407	1.55	740	8x50
56	160	566KFM160MTJG	4.4407	1.55	740	12.5x20
56	200	566KFM200MGDG	4.4407	1.25	670	10x50
56	200	566KFM200MTJD	4.4407	1.25	670	12.5x25
56	250	566KFM250MTAG	4.4407	1.25	750	12.5x30
56	400	566KFM400MKAG	5.9209	1.7	820	16x30
56	400	566KFM400MTDG	5.9209	1.7	820	12.5x50
56	450	566KFM450MKAD	5.9209	1.38	750	16x35
68	160	686KFM160MTJG	3.657	1.1	800	12.5x20
68	200	686KFM200M	3.657	1.25	760	12.5x25
68	200	686KFM200MQU	3.657	1.25	760	16x20
68	250	686KFM250M	3.657	1.25	920	16x25
68	250	686KFM250MRU	3.657	1.25	920	18x20
68	250	686KFM250MGDG	3.657	1.25	870	10x50
68	250	686KFM250MTAG	3.657	1.25	870	12.5x30
68	350	686KFM350MTDG	4.8761	1.38	880	12.5x50
68	350	686KFM350M	4.8761	1.38	850	16x31.5

KFM

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

Capacitance (μF)	WVDC	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	Maximum Impedance (Ω) 100 kHz, 20°C	Maximum RMS Ripple Current (mA) 100 kHz, +105°C	Dims DxL (mm)
68	350	686KFM350MRV	4.8761	1.38	880	18x25
68	400	686KFM400M	4.8761	1.38	910	18x31.5
68	450	686KFM450M	4.8761	1.25	1120	18x35.5
82	160	826KFM160MTJD	3.0327	1.1	830	12.5x25
82	200	826KFM200MKJD	3.0327	1.15	860	16x25
82	250	826KFM250MFBG	3.0327	1.15	910	8x10
82	350	826KFM350MLAG	4.0436	1.38	940	18x30
82	400	826KFM400MKCG	4.0436	1.25	980	16x40
82	400	826KFM400MLAD	4.0436	1.28	980	18x35
82	450	826KFM450MLCG	4.0436	0.97	1030	18x40
100	160	107KFM160MGDG	2.4868	1.1	1210	10x50
100	160	107KFM160MKJG	2.4868	1.1	1120	16x20
100	200	107KFM200M	2.487	1.15	930	16x25
100	250	107KFM250M	2.487	1.18	960	16x31.5
100	250	107KFM250MRV	2.487	1.18	1200	18x25
100	250	107KFM250MTDG	2.487	1.18	980	12.5x50
100	350	107KFM350MLAD	3.3157	1.25	1120	18x35
100	400	107KFM400MLCG	3.3157	0.97	1100	18x40
120	160	127KFM160MKJD	2.0723	0.91	1240	16x25
120	200	127KFM200MKAG	2.487	1.03	1090	16x35
120	250	127KFM250MLAG	2.0723	1.02	1210	18x30
120	350	127KFM350MLAD	2.7631	1.25	1200	18x35
150	160	157KFM160MKAG	1.658	0.91	1280	16x30
150	160	157KFM160MTDG	1.658	0.91	1280	12.5x50
150	200	157KFM200MKAD	1.658	1.03	1125	16x35
150	200	157KFM200M	1.658	1.03	1360	16x31.5
150	200	157KFM200MRV	1.658	1.03	1360	18x25
150	250	157KFM250M	1.658	0.98	1400	18x31.5
180	160	187KFM160MKAG	1.3816	0.81	1360	16x30
180	200	187KFM200MLAG	1.3816	0.8	1340	18x30
180	250	187KFM250MLAD	1.3816	0.74	1540	18x35
220	160	227KFM160MLAG	1.13	0.81	1410	18x30
220	160	227KFM160M	1.13	0.81	1410	16x31.5
220	160	227KFM160MRV	1.13	0.81	1400	18x25
220	200	227KFM200M	1.13	0.81	1700	18x31.5
220	200	227KFM200MLAD	1.13	0.74	1420	18x35
220	250	227KFM250MLCG	1.13	0.61	1620	18x40
270	160	277KFM160MLAD	0.92104	0.67	1500	18x35
330	160	337KFM160MLCG	0.7536	0.87	1590	18x40

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