

KFM

105°C 10,000 Hour Radial Lead Aluminum Electrolytic Capacitors



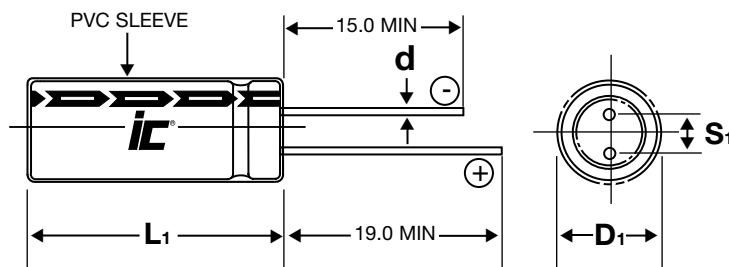
For Ballast applications and Switching power supplies

FEATURES

- Electronic Ballasts
- Switching Power Supplies
- High Voltage
- Long Life
- High Temperature
- RoHS Compliant

SPECIFICATIONS

Operating Temperature Range		-40°C to + 105°C (160 to 400WVDC) -25°C to +105°C (450 WVDC)								
Capacitance Tolerance		±20% at 120Hz, 20°C								
Surge Voltage	WVDC	160	200	250	300	400	450			
	SVDC	200	250	300	400	450	500			
Dissipation Factor 120Hz, 20°C	WVDC	160	200	250	300	400	450			
	tan δ	.15	.15	.15	.24	.24	.24			
Leakage Current		Time	2 minutes							
		.06CV+10uA								
Low Temperature Stability Impedance Ratio (120 Hz)		Rated WVDC	160 to 250		350 to 400		450			
		-25°C/ +20°C	3		6		6			
		-40°C/+20°C	4		6		-			
Load Life		10,000 hours (8000 hours D=10mm) with rated voltage and ripple current applied at 105°C								
		Capacitance change Dissipation factor Leakage current				≤ 20% of initial measured value ≤ 200% of maximum specified value <100% of specified value				
Shelf Life		1000 hours at 105°C with no voltage applied								
		Capacitance change Dissipation factor Leakage Current				≤ 20% of initial measured value ≤ 200% of maximum specified value <100% of specified value				
Ripple Current Multipliers		Frequency (Hz)				Temperature (°C)				
		120	1K	10K	100K	+65	+75	+85	+95	+105
		0.5	0.8	0.9	1.0	1.8	1.65	1.5	1.25	1.0



LEAD Spacing vs. Case Diameter

D	10	12.5	16	18
S	5.0	5.0	7.5	7.5
d	0.6	0.6	0.8	0.8

L₁=L+1.5 mm

D₁=D+0.5mm

S₁=S±0.5mm



ILLINOIS CAPACITOR, INC.

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PHYSICAL DIMENSIONS

WVDC (V) (μF)	160 (200)	200 (250)	250 (300)	350 (400)	400 (450)	450 (500)
6.8					10x16	10x20
10		10x16			10x20	12.5x20
22		10x20	12.5x20	12.5x20	12.5x25	16x25
					16x20	18x20
33	10x20		12.5x20	16x20	16x25	16x31.5
					18x20	18x25
47		12.5x20	12.5x25	16x25	16x31.5	18x31.5
			16x20	18x20	18x25	
68		12.5x25	16x25	16x31.5	18x31.5	18x35.5
		16x20	18x20	18x25		
100		16x25	16x31.5			
		18x20	18x25			
150		16x31.5	18x31.5			
		18x25				
220	16x31.5	18x31.5				
	18x25					

Convert to inches, divide by 25.4

D x L (mm)

STANDARD PART LISTING

Capacitance (μF)	WVDC	IC [®] PART NUMBER	Maximum ESR Ω 120Hz, +20°C	Maximum RMS Ripple Current (mA) +105°C 100kHz	Dimensions DxL (mm)
6.8	400	685KFM400M	58.513	220	10x16
6.8	450	685KFM450M	58.513	150	10x20
10	200	106KFM200M	24.868	250	10x16
10	400	106KFM400M	39.789	280	10x20
10	450	106KFM450M	39.789	320	12.5x20
22	200	226KFM200M	11.304	500	10x20
22	250	226KFM250M	11.304	600	12.5x20
22	350	226KFM350M	18.086	350	12.5x20
22	400	226KFM400M	18.086	430	12.5x25
22	400	226KFM400MQU	18.086	430	16x20
22	450	226KFM450M	18.086	560	16x25
22	450	226KFM450MRU	18.086	560	18x20
33	160	336KFM160M	7.5357	500	10x20
33	250	336KFM250M	7.5357	600	12.5x20
33	350	336KFM350M	12.057	500	16x20
33	400	336KFM400M	12.057	640	16x25
33	400	336KFM400MRU	12.057	640	18x20
33	450	336KFM450M	12.057	700	16x31.5
33	450	336KFM450MRV	12.057	700	18x25
47	200	476KFM200M	5.2911	660	12.5x20
47	250	476KFM250M	5.2911	720	12.5x25
47	250	476KFM250MQU	5.2911	720	16x20
47	350	476KFM350M	8.4657	660	16x25

Capacitance (μF)	WVDC	IC [®] PART NUMBER	Maximum ESR Ω 120Hz, +20°C	Maximum RMS Ripple Current (mA) +105°C 100kHz	Dimensions DxL (mm)
47	350	476KFM350MRU	8.4657	660	18x20
47	400	476KFM400M	8.466	840	16x31.5
47	400	476KFM400MRV	8.466	840	18x25
47	450	476KFM450M	8.466	880	18x31.5
68	200	686KFM200M	3.657	760	12.5x25
68	200	686KFM200MQU	3.657	760	16x20
68	250	686KFM250M	3.657	920	16x25
68	250	686KFM250MRU	3.657	920	18x20
68	350	686KFM350M	5.851	850	16x31.5
68	350	686KFM350MRV	5.851	850	18x25
68	400	686KFM400M	5.851	1000	18x31.5
68	450	686KFM450M	5.851	1150	18x35.5
100	200	107KFM200M	2.487	1120	16x25
100	200	107KFM200MRU	2.487	1120	18x20
100	250	107KFM250M	2.487	1200	16x31.5
100	250	107KFM250MRV	2.487	1200	18x25
150	200	157KFM200M	1.658	1360	16x31.5
150	200	157KFM200MRV	1.658	1360	18x25
150	250	157KFM250M	1.658	1500	18x31.5
220	160	227KFM160M	1.130	1400	16x31.5
220	160	227KFM160MRV	1.130	1400	18x25
220	200	227KFM200M	1.130	1700	18x31.5