



## Aluminum Electrolytic Capacitors

+105°C Low Profile, Radial Lead

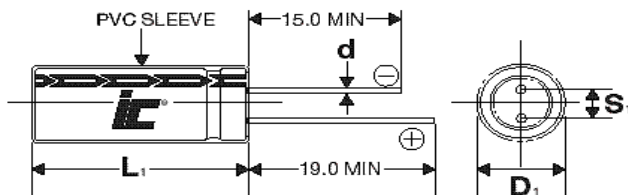
### FEATURES

Low Profile - High Voltage - General Purpose

### APPLICATIONS

Bypass – Coupling – Filter – De-coupling

<b>Operating Temperature Range</b>		<b>-55°C to +105°C (6.3 to 100 WVDC)</b> <b>-40°C to +105°C (160 to 400 WVDC)</b>											
<b>Capacitance Tolerance</b>		<b>+20% at 120 Hz, 20°C</b>											
<b>Surge Voltage</b>	<b>WVDC</b>	6.3	10	16	25	35	50	63	100	160	200	250	400
	<b>SVDC</b>	7.9	13	20	32	44	63	79	125	200	250	300	450
<b>Dissipation Factor</b>	<b>WVDC</b>	6.3	10	16	25	35	50	63	100	160	200	250	400
	<b>Tan δ</b>	.28	.24	.2	.16	.14	.12	.1	.08	.15	.15	.15	.1
		Add .02 for every 1000uF above 1000uF											
<b>Leakage Current</b>		<b>6.3 to 100 WVDC</b>						<b>160 to 400 WVDC</b>					
		<b>1 Minutes</b>			<b>2 Minutes</b>			<b>2 Minutes</b>					
		.03CV or 4uA, Whichever is greater			.01CV or 3uA, Whichever is greater			.04CV+100uA					
<b>Low Temperature Stability Impedance Ratio (120 Hz)</b>	<b>WVDC</b>	6.3	10	16	25	35	50	63	100	160	200	250	400
	<b>-25°C to +20°C</b>	5	4	3	2	2	2	2	2	4	4	4	4
	<b>-40°C to +20°C</b>	10	8	6	4	3	3	3	3	15	15	15	10
<b>Load Life</b>		<b>1000 hours at 105°C with rated WVDC and ripple current applied</b>											
		<b>Capacitance Change</b>		≤20% of initial measured value									
		<b>Dissipation Factor</b>		≤150% of maximum specified value									
		<b>Leakage Current</b>		≥100% of maximum specified value									
<b>Shelf Life</b>		<b>1000 hours at 105°C with no voltage applied</b>											
		<b>Capacitance Change</b>		≤20% initial measured value									
		<b>Dissipation Factor</b>		≤200% of maximum specified value									
		<b>Leakage Current</b>		≥100% of maximum specified value									
<b>Ripple Current Multipliers</b>		<b>WVDC</b>	<b>Capacitance (uF)</b>		<b>Frequency (Hz)</b>					<b>Temperature (°C)</b>			
		6.3 to 100V	C<47		50	120	300	1k	10k	+85	+70	+60	
		6.3 to 100V	47<C<470		.8	1.0	1.23	1.15	1.25	1.0	1.4	1.75	
		6.3 to 100V	C>470		.75	1.0	1.1	1.25	1.40	1.0	1.4	1.75	
		160 to 400V	all		.7	1.0	1.25	1.30	1.80	1.0	1.4	1.75	



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<sub>1</sub>=L+1.5mm Max.  
D<sub>1</sub>=D+0.5mm Max.  
S<sub>1</sub>=S+0.5 mm

# FXM

+105°C, Low profile 1000 hours

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	Maximum RMS Ripple Current (mA) 120 Hz, +105°C	Dims DxL (mm)
1	50	105FXM050M	198.944	12	5x9
1	100	105FXM100M	132.629	15	5x9
2.2	50	225FXM050M	90.429	18	5x9
2.2	100	225FXM100M	60.286	21	5x9
3.3	50	335FXM050M	60.286	25	5x9
3.3	100	335FXM100M	40.191	29	5x9
4.7	50	475FXM050M	42.328	30	5x9
4.7	100	475FXM100M	28.219	32	5x9
10	50	106FXM050M	19.894	46	5x9
10	63	106FXM063M	16.579	50	5x9
10	100	106FXM100M	13.263	55	6.3x9
10	400	106FXM400M	41.447	100	16x15
22	50	226FXM050M	9.043	85	5x9
22	63	226FXM063M	7.536	80	6.3x9
22	100	226FXM100M	6.029	95	8x9
22	250	226FXM250M	15.071	200	16x15
22	400	226FXM400M	18.836	200	18x15
33	35	336FXM035M	7.033	75	5x9
33	50	336FXM050M	6.029	85	6.3x9
33	63	336FXM063M	5.024	95	6.3x9
33	100	336FXM100M	4.019	120	10x9
33	200	336FXM200M	10.048	250	16x15
33	250	336FXM250M	10.048	250	18x15
33	400	336FXM400M	12.56	250	18x20
47	25	476FXM025M	5.644	80	5x9
47	35	476FXM035M	4.938	95	6.3x9
47	50	476FXM050M	4.233	100	6.3x9
47	63	476FXM063M	3.527	125	8x9
47	100	476FXM100M	2.822	165	10x12.5
47	160	476FXM160M	7.055	300	16x15
47	200	476FXM200M	7.055	300	18x15
47	250	476FXM250M	7.055	300	18x20
47	400	476FXM400M	8.818	300	18x25
68	160	686FXM160M	4.876	350	18x15
68	200	686FXM200M	4.876	350	18x20
68	250	686FXM250M	765.93	350	18x20
100	10	107FXM010M	3.979	95	5x9
100	16	107FXM016M	3.316	115	6.3x9
100	25	107FXM025M	2.653	130	6.3x9
100	35	107FXM035M	2.321	155	8x9
100	50	107FXM050M	1.989	170	10x9
100	63	107FXM063M	1.658	220	10x12.5
100	100	107FXM100M	1.326	260	12.5x15
100	160	107FXM160M	3.316	420	18x20
100	200	107FXM200M	3.316	420	18x25
100	250	107FXM250M	3.316	420	18x25
150	160	157FXM160M	2.21	510	18x25
150	200	157FXM200M	2.21	510	18x25
220	6.3	227FXM6R3M	2.11	145	6.3x9

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	Maximum RMS Ripple Current (mA) 120 Hz, +105°C	Dims DxL (mm)
220	10	227FXM010M	1.809	155	6.3x9
220	16	227FXM016M	1.507	205	8x9
220	25	227FXM025M	1.206	220	10x9
220	35	227FXM035M	1.055	235	10x9
220	50	227FXM050M	0.904	290	10x12.5
220	63	227FXM063M	0.754	330	12.5x12.5
220	100	227FXM100M	0.603	440	16x15
330	6.3	337FXM6R3M	1.407	180	6.3x9
330	10	337FXM010M	1.206	210	8x9
330	16	337FXM016M	1.005	240	10x9
330	25	337FXM025M	0.804	270	10x9
330	35	337FXM035M	0.703	340	10x12.5
330	50	337FXM050M	0.603	370	12.5x12.5
330	63	337FXM063M	0.502	430	12.5x15
330	100	337FXM100M	0.402	590	18x20
470	6.3	477FXM6R3M	0.988	235	8x9
470	10	477FXM010M	0.847	275	8x9
470	16	477FXM016M	0.7055	290	10x9
470	25	477FXM025M	0.705	370	10x12.5
470	35	477FXM035M	0.494	420	12.5x12.5
470	50	477FXM050M	0.423	540	16x15
470	63	477FXM063M	0.353	600	18x15
470	100	477FXM100M	0.282	770	18x25
1000	6.3	108FXM6R3M	0.464	370	10x9
1000	10	108FXM010M	0.398	450	10x12.5
1000	16	108FXM016M	0.332	520	12.5x12.5
1000	25	108FXM025M	0.332	590	12.5x15
1000	35	108FXM035M	0.232	720	16x15
1000	50	108FXM050M	0.199	830	18x20
1000	63	108FXM063M	0.166	1000	18x25
2200	6.3	228FXM6R3M	0.241	635	12.5x15
2200	10	228FXM010M	0.211	690	12.5x15
2200	16	228FXM016M	0.181	830	16x15
2200	25	228FXM025M	0.151	970	18x15
2200	35	228FXM035M	0.136	1110	18x20
3300	6.3	338FXM6R3M	0.171	860	16x15
3300	10	338FXM010M	0.151	940	16x15
3300	16	338FXM016M	0.131	1050	18x15
3300	25	338FXM025M	0.111	1220	18x20
4700	6.3	478FXM6R3M	0.127	1010	16x15
4700	10	478FXM010M	0.113	1120	18x15
4700	16	478FXM016M	0.099	1260	18x20
4700	25	478FXM025M	0.085	1470	18x25
6800	6.3	688FXM6R3M	0.098	1200	18x15
6800	10	688FXM010M	0.088	1330	18x20
6800	16	688FXM016M	0.078	1560	18x25
10000	6.3	109FXM6R3M	0.076	1450	18x20
10000	10	109FXM010M	0.07	1700	18x25