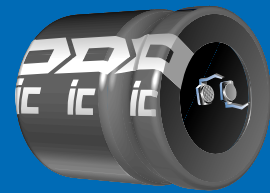


# LMX

## +105°C 5000 hour Snap-Mount Aluminum Electrolytic Capacitors



### FEATURES

- Long life (20+ years @ 20°C)
- High ripple current ratings
- Multiple cases sizes
- 2, 3 and 4 leads available
- Lead free leads
- PC board mountable

### SPECIFICATIONS

Capacitance Tolerance		±20% at 120Hz, 20°C									
Operating Temperature Range		-25°C to +105°C									
Surge Voltage	WVDC	200	250	400	450						
	SVDC	250	300	450	500						
Dissipation Factor 120Hz, 20°C	WVDC	200	250	400	450						
	tan δ	.15	.15	.15	.15						
Leakage Current	Time	5 minutes									
		.02CV or 3000µA, whichever is less									
Impedance Ratio at low Temperature 120Hz	WVDC	200	250	400	450						
	-25°C/20°C	4	4	6	6						
Load Life	5,000 hours at 105°C with rated WVDC and ripple current										
	Capacitance change Dissipation factor Leakage current					≤ 20% of initial measured value ≤175% of initial specified value ≤100% Initial specified value					
Shelf life	1,000 hours at 105°C with rated WVDC and ripple current										
	Capacitance change Dissipation factor Leakage current					≤ 20% of initial measured value ≤175% of initial specified value ≤The Initial specified value					
Ripple Current Multipliers	Frequency (Hz)					Temperature (°C)					
	50	120	400	1k	10k	105	85	70	60	≤45	
	.8	1.0	1.1	1.3	1.4	1.0	1.8	2.0	2.2	2.5	

Aluminum Electrolytic

### SPECIAL ORDER OPTIONS

(See pages 33 thru 37)

- 3 and 4 leaded terminations
- Special tolerances: ±10%(K), -10% + 30%(Q)
- Epoxy end sealed
- Mylar sleeve



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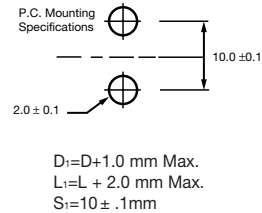
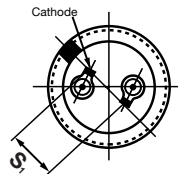
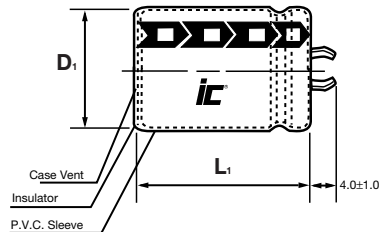
## PHYSICAL DIMENSIONS

WVDC (SV) μF	200 (250)	250 (300)	400 (450)	450 (500)
47				22x25
56				22x25 22x30
68			22x25	22x30 22x35 25x25
82			22x25 22x30	22x30 22x35 25x25 25x30
100			22x30 22x35 25x25 25x30	22x35 22x40 25x30 25x35 30x25
120			22x35 22x40 25x30 25x35 30x25	22x40 22x50 25x35 25x40 30x25 30x30 35x25
150		22x25	22x40 22x45 25x30 25x40 30x25 30x30	22x50 25x40 25x45 30x30 30x35 35x30
180		22x25 22x30 25x25	22x45 22x50 25x35 25x40 30x30 30x35 35x25	25x45 30x35 30x40 35x30
220	22x25	22x30 22x35 25x30	22x50 25x40 25x50 30x30 30x35 35x30	30x40 30x45 35x30 35x35
270	22x30 25x25	22x30 22x35 25x25 25x30	25x45 30x35 30x45 35x30 35x35	30x45 30x50 35x35 35x40

Convert to inches, divide by 25.4.

WVDC (SV) μF	200 (250)	250 (300)	400 (450)	450 (500)
330	22x30 22x35 25x25 25x30	22x35 22x40 25x30 25x35 30x25	30x40 30x50 35x35 35x40	30x50 35x45
390	22x35 25x30 25x35 30x25	22x40 22x45 25x35 25x40 30x30 30x35	30x45 35x35	35x45
470	22x40 22x45 25x30 25x35 30x25 30x30	22x50 25x40 25x45 30x30 30x35 35x25	35x40 35x50	
560	22x45 22x50 25x35 25x40 30x30 30x35	25x45 30x35 30x40 35x30	35x45	
680	25x40 25x50 30x30 30x35 35x25	25x50 30x40 30x45 35x30		
820	25x45 30x35 30x40 35x30	30x45 30x50 35x35		
1000	30x40 30x45 35x35	30x55 35x40		
1200	30x45 30x50 35x40 35x45	35x50 35x55		
1500	35x45 35x50	35x55		
1800	35x50			

DxL(mm)



3 and 4 pin mounting styles  
available on special order.  
Contact I.C. for details

## STANDARD PART LISTING

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR Ω 120Hz,+20°C	Maximum RMS Ripple Current (A) 120Hz,+105°C	Dimensions DxL (mm)
47	400	476LMX450M2BC	5.291	0.39	22x25
56	450	566LMX450M2BC	4.441	0.42	22x25
56	450	566LMX450M2BD	4.441	0.46	22x30
68	400	686LMX400M2BC	3.657	0.47	22x25
68	450	686LMX450M2BD	3.657	0.5	22x30
68	450	686LMX450M2BE	3.657	0.54	22x35
68	450	686LMX450M2CC	3.657	0.5	25x25
82	400	826LMX400M2BC	3.033	0.52	22x25
82	400	826LMX400M2BD	3.033	0.56	22x30
82	450	826LMX450M2BD	3.033	0.55	22x30
82	450	826LMX450M2BE	3.033	0.59	22x35
82	450	826LMX450M2CC	3.033	0.55	25x25
82	450	826LMX450M2CD	3.033	0.6	25x30
100	400	107LMX400M2BD	2.487	0.62	22x30
100	400	107LMX400M2BE	2.487	0.66	22x35
100	400	107LMX400M2CC	2.487	0.62	25x25
100	400	107LMX400M2CD	2.487	0.66	25x30
100	450	107LMX450M2BE	2.487	0.65	22x35
100	450	107LMX450M2BF	2.487	0.69	22x40
100	450	107LMX450M2CD	2.487	0.66	25x30
100	450	107LMX450M2CE	2.487	0.7	25x35
100	450	107LMX450M2DC	2.487	0.68	30x25
120	400	127LMX400M2BE	2.072	0.72	22x35
120	400	127LMX400M2BF	2.072	0.76	22x40
120	400	127LMX400M2CD	2.072	0.73	25x30
120	400	127LMX400M2CE	2.072	0.77	25x35
120	400	127LMX400M2DC	2.072	0.75	30x25
120	450	127LMX450M2BF	2.072	0.76	22x40
120	450	127LMX450M2BH	2.072	0.84	22x50
120	450	127LMX450M2CE	2.072	0.77	25x35
120	450	127LMX450M2CF	2.072	0.81	25x40
120	450	127LMX450M2DC	2.072	0.75	30x25
120	450	127LMX450M2DD	2.072	0.8	30x30
120	450	127LMX450M2EC	2.072	0.82	35x25
150	250	157LMX250M2BC	1.658	0.69	22x25
150	400	157LMX400M2BF	1.658	0.85	22x40
150	400	157LMX400M2BG	1.658	0.9	22x45
150	400	157LMX400M2CD	1.658	0.81	25x30
150	400	157LMX400M2CF	1.658	0.92	25x40
150	400	157LMX400M2DC	1.658	0.84	30x25
150	400	157LMX400M2DD	1.658	0.9	30x30
150	450	157LMX450M2BH	1.658	0.94	22x50
150	450	157LMX450M2CF	1.658	0.91	25x40
150	450	157LMX450M2CG	1.658	0.96	25x45
150	450	157LMX450M2DD	1.658	0.9	30x30
150	450	157LMX450M2DE	1.658	0.96	30x35

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR Ω 120Hz,+20°C	Maximum RMS Ripple Current (A) 120Hz,+105°C	Dimensions DxL (mm)
150	450	157LMX450M2ED	1.658	0.99	35x30
180	250	187LMX250M2BC	1.382	0.76	22x25
180	250	187LMX250M2BD	1.382	0.82	22x30
180	250	187LMX250M2CC	1.382	0.82	25x25
180	400	187LMX400M2BG	1.382	0.98	22x45
180	400	187LMX400M2BH	1.382	1.03	22x50
180	400	187LMX400M2CE	1.382	0.95	25x35
180	400	187LMX400M2CF	1.382	1.06	25x40
180	400	187LMX400M2DD	1.382	0.99	30x30
180	400	187LMX400M2DE	1.382	1.06	30x35
180	400	187LMX400M2EC	1.382	1.01	35x25
180	450	187LMX450M2CG	1.382	1.05	25x45
180	450	187LMX450M2DE	1.382	1.05	30x35
180	450	187LMX450M2DF	1.382	1.11	30x40
180	450	187LMX450M2ED	1.382	1.08	35x30
220	200	227LMX200M2BC	1.130	0.85	22x25
220	250	227LMX250M2BD	1.130	0.91	22x30
220	250	227LMX250M2BE	1.130	0.97	22x35
220	250	227LMX250M2CD	1.130	0.98	25x30
220	400	227LMX400M2BH	1.130	1.14	22x50
220	400	227LMX400M2CF	1.130	1.11	25x40
220	400	227LMX400M2CH	1.130	1.22	25x50
220	400	227LMX400M2DD	1.130	1.09	30x30
220	400	227LMX400M2DE	1.130	1.16	30x35
220	400	227LMX400M2ED	1.130	1.2	35x30
220	450	227LMX450M2DF	1.130	1.22	30x40
220	450	227LMX450M2DG	1.130	1.29	30x45
220	450	227LMX450M2ED	1.130	1.19	35x30
220	450	227LMX450M2EE	1.130	1.27	35x35
270	200	277LMX200M2BD	0.921	1.02	22x30
270	200	277LMX200M2CC	0.921	1.02	25x25
270	250	277LMX250M2BD	0.921	1.01	22x30
270	250	277LMX250M2BE	0.921	1.07	22x35
270	250	277LMX250M2CC	0.921	1.01	25x25
270	250	277LMX250M2CD	0.921	1.08	25x30
270	400	277LMX400M2CG	0.921	1.29	25x45
270	400	277LMX400M2DE	0.921	1.29	30x35
270	400	277LMX400M2DG	0.921	1.43	30x45
270	400	277LMX400M2ED	0.921	1.33	35x30
270	400	277LMX400M2EE	0.921	1.41	35x35
270	450	277LMX450M2DG	0.921	1.43	30x45
270	450	277LMX450M2DH	0.921	1.49	30x50
270	450	277LMX450M2EE	0.921	1.41	35x35
270	450	277LMX450M2EF	0.921	1.48	35x40
330	200	337LMX200M2CC	0.754	1.12	25x25
330	200	337LMX200M2BD	0.754	1.12	22x30

## STANDARD PART LISTING

Capacitance (µF)	WVDC	IC <sup>®</sup> PART NUMBER	Maximum ESR Ω 120Hz, +20°C	Maximum RMS Ripple Current (A) 120Hz, +105°C	Dimensions DxL (mm)
330	200	337LMX200M2BE	0.754	1.2	22x35
330	200	337LMX200M2CD	0.754	1.21	25x30
330	250	337LMX250M2BE	0.754	1.19	22x35
330	250	337LMX250M2BF	0.754	1.26	22x40
330	250	337LMX250M2CD	0.754	1.2	25x30
330	250	337LMX250M2CE	0.754	1.28	25x35
330	250	337LMX250M2DC	0.754	1.24	30x25
330	400	337LMX400M2DF	0.754	1.51	30x40
330	400	337LMX400M2DH	0.754	1.66	30x50
330	400	337LMX400M2EE	0.754	1.56	35x35
330	400	337LMX400M2EF	0.754	1.65	35x40
330	450	337LMX450M2DH	0.754	1.65	30x50
330	450	337LMX450M2EF	0.754	1.64	35x40
330	450	337LMX450M2EG	0.754	1.72	35x45
390	200	397LMX200M2BE	0.638	1.31	22x35
390	200	397LMX200M2CD	0.638	1.32	25x30
390	200	397LMX200M2CE	0.638	1.4	25x35
390	200	397LMX200M2DC	0.638	1.37	30x25
390	250	397LMX250M2BF	0.638	1.37	22x40
390	250	397LMX250M2BG	0.638	1.44	22x45
390	250	397LMX250M2CE	0.638	1.39	25x35
390	250	397LMX250M2CF	0.638	1.47	25x40
390	250	397LMX250M2DD	0.638	1.45	30x30
390	250	397LMX250M2DE	0.638	1.54	30x35
390	400	397LMX400M2DG	0.638	1.72	30x45
390	400	397LMX400M2EE	0.638	1.7	35x35
390	400	397LMX400M2EG	0.638	1.88	35x45
390	450	397LMX450M2EG	0.638	1.87	35x45
470	200	477LMX200M2BF	0.529	1.52	22x40
470	200	477LMX200M2CD	0.529	1.45	25x30
470	200	477LMX200M2CE	0.529	1.54	25x35
470	200	477LMX200M2DC	0.529	1.5	30x25
470	200	477LMX200M2BG	0.529	1.61	30x30
470	200	477LMX200M2DG	0.529	1.6	22x45
470	250	477LMX250M2BH	0.529	1.66	22x50
470	250	477LMX250M2CF	0.529	1.61	25x40
470	250	477LMX250M2CG	0.529	1.7	25x45
470	250	477LMX250M2DD	0.529	1.59	30x30
470	250	477LMX250M2DE	0.529	1.69	30x35
470	250	477LMX250M2EC	0.529	1.63	35x25
470	400	477LMX400M2EF	0.529	1.97	35x40
470	400	477LMX400M2EH	0.529	2.16	35x50

Capacitance (µF)	WVDC	IC <sup>®</sup> PART NUMBER	Maximum ESR Ω 120Hz, +20°C	Maximum RMS Ripple Current (A) 120Hz, +105°C	Dimensions DxL (mm)
560	200	567LMX200M2BG	0.444	1.75	22x45
560	200	567LMX200M2BH	0.444	1.83	22x50
560	200	567LMX200M2CE	0.444	1.68	25x35
560	200	567LMX200M2CF	0.444	1.78	25x40
560	200	567LMX200M2DD	0.444	1.76	30x30
560	200	567LMX200M2DE	0.444	1.87	30x35
560	250	567LMX250M2CG	0.444	1.85	25x45
560	250	567LMX250M2DE	0.444	1.85	30x35
560	250	567LMX250M2DF	0.444	1.95	30x40
560	250	567LMX250M2ED	0.444	1.91	35x30
560	400	567LMX400M2EG	0.444	2.26	35x45
680	200	687LMX200M2CF	0.366	1.96	25x40
680	200	687LMX200M2CH	0.366	2.16	25x50
680	200	687LMX200M2DD	0.366	1.94	30x30
680	200	687LMX200M2DE	0.366	2.06	30x35
680	200	687LMX200M2EC	0.366	1.98	35x25
680	250	687LMX250M2CH	0.366	1.94	25x50
680	250	687LMX250M2DF	0.366	2.15	30x40
680	250	687LMX250M2DG	0.366	2.26	30x45
680	250	687LMX250M2ED	0.366	2.1	35x30
820	200	827LMX200M2CG	0.303	2.27	25x45
820	200	827LMX200M2DE	0.303	2.26	30x35
820	200	827LMX200M2DF	0.303	2.39	30x40
820	200	827LMX200M2ED	0.303	2.33	35x30
820	250	827LMX250M2DG	0.303	2.49	30x45
820	250	827LMX250M2DH	0.303	2.6	30x50
820	250	827LMX250M2EE	0.303	2.45	35x35
1000	200	108LMX200M2DF	0.249	2.64	30x40
1000	200	108LMX200M2DG	0.249	2.78	30x45
1000	200	108LMX200M2EE	0.249	2.74	35x35
1000	250	108LMX250M2DP	0.249	3	30x55
1000	250	108LMX250M2EF	0.249	2.86	35x40
1200	200	128LMX200M2DG	0.207	3.04	30x45
1200	200	128LMX200M2DH	0.207	3.19	30x50
1200	200	128LMX200M2EF	0.207	3.17	35x40
1200	200	128LMX200M2EG	0.207	3.33	35x45
1200	250	128LMX250M2EH	0.207	3.44	35x50
1200	250	128LMX250M2EP	0.207	3.58	35x55
1500	200	158LMX200M2EG	0.166	3.72	35x45
1500	200	158LMX200M2EH	0.166	3.75	35x50
1500	250	158LMX250M2EP	0.166	4	35x55
1800	200	188LMX200M2EH	0.138	4.1	35x50