

LM series

- Downsized, longer life
- Endurance: 3,000 hours at 105°C
- RoHS Compliant

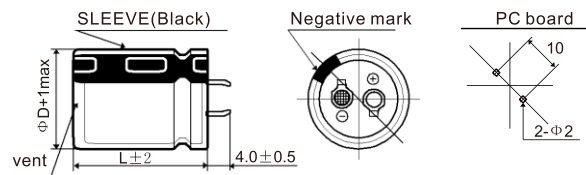


SPECIFICATIONS

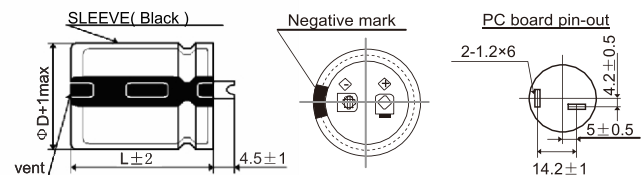
Items	Characteristics		
Category Temperature Range	-25~+105°C		
Rated Voltage Range	160~550V.DC		
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)		
Leakage Current	$I \leq 3\sqrt{CV}$ Where, I:Max.leakage current (µA), C:Nominal capacitance (µF), V: Rated voltage (V) (at 20°C after 5 minutes)		
Dissipation Factor (tan δ)	Rated Voltage(V _{dc})	160 to 400	420 to 550
	tan δ (max.)	0.15	0.20
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage(V _{dc})	160 to 250	315 to 550
	Z(-25°C)/Z(+20°C)	4	8
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after DC voltage plus the rated ripple current is applied for 3,000 hours at 105 °C.		
	Capacitance Change	±20% of the initial value	
	D.F. (tan δ)	200% of the initial specified value	
	Leakage Current	The initial specified value	
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied.		
	Capacitance Change	±15% of the initial value	
	D.F. (tan δ)	150% of the initial specified value	
	Leakage Current	200% of the initial specified value	

DIMENSIONS[mm]

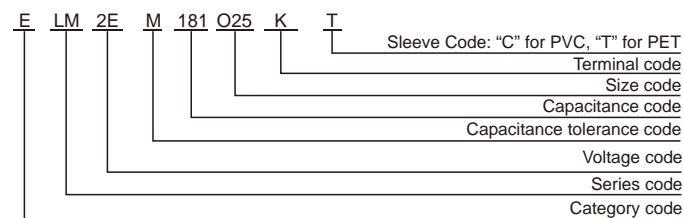
- Terminal Code : K (22 to 35) : Standard



- Terminal Code : L (35)



PART NUMBERING SYSTEM



RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current

Rated voltage(V _{dc})	Freq.(Hz)			
	120	1k	10k	100k
160~250	1.00	1.32	1.45	1.50
315~550	1.00	1.30	1.41	1.43

The endurance of capacitors is shortened with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

LM series

■ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size DxL(mm)	tan	Rated ripple current (Arms/105°C, 120Hz)	Part Number	
420(2T)	47	22x20	0.20	0.37	ELM2TM470O20KT	
	56	25x20	0.20	0.42	ELM2TM560P20KT	
	68	22x25	0.20	0.50	ELM2TM680O25KT	
		25x20	0.20	0.46	ELM2TM680P20KT	
	82	22x25	0.20	0.64	ELM2TM820O25KT	
		25x25	0.20	0.58	ELM2TM820P25KT	
		30x20	0.20	0.53	ELM2TM820Q20KT	
	100	22x30	0.20	0.70	ELM2TM101O30KT	
		25x25	0.20	0.70	ELM2TM101P25KT	
	120	30x20	0.20	0.59	ELM2TM101Q20KT	
		22x35	0.20	0.75	ELM2TM121O35KT	
		25x30	0.20	0.75	ELM2TM121P30KT	
	150	30x25	0.20	0.73	ELM2TM121Q25KT	
		35x20	0.20	0.67	ELM2TM121R20KT	
		22x40	0.20	0.88	ELM2TM151O40KT	
	180	25x35	0.20	0.88	ELM2TM151P35KT	
		30x25	0.20	0.88	ELM2TM151Q25KT	
		22x45	0.20	0.95	ELM2TM181O45KT	
	220	25x35	0.20	0.95	ELM2TM181P35KT	
		30x30	0.20	0.95	ELM2TM181Q30KT	
		35x25	0.20	0.94	ELM2TM181R25KT	
	270	22x50	0.20	1.10	ELM2TM221O50KT	
		25x45	0.20	1.10	ELM2TM221P45KT	
		30x35	0.20	1.10	ELM2TM221Q35KT	
	330	35x25	0.20	1.10	ELM2TM221R25KT	
		25x50	0.20	1.22	ELM2TM271P50KT	
		30x40	0.20	1.22	ELM2TM271Q40KT	
	390	35x30	0.20	1.22	ELM2TM271R30KT	
		25x60	0.20	1.41	ELM2TM331P60KT	
		30x45	0.20	1.45	ELM2TM331Q45KT	
	470	35x35	0.20	1.45	ELM2TM331R35KT	
		30x50	0.20	1.55	ELM2TM391Q50KT	
		35x40	0.20	1.55	ELM2TM391R40KT	
	560	30x60	0.20	1.79	ELM2TM471Q60KT	
		35x45	0.20	1.90	ELM2TM471R45KT	
	680	35x50	0.20	2.15	ELM2TM561R50KT	
		35x60	0.20	2.27	ELM2TM681R60KT	
	450(2W)	56	22x25	0.20	0.40	ELM2WM560O25KT
		68	22x30	0.20	0.53	ELM2WM680O30KT
		82	25x25	0.20	0.50	ELM2WM680P25KT
			22x30	0.20	0.64	ELM2WM820O30KT
		100	25x25	0.20	0.64	ELM2WM820P25KT
			22x35	0.20	0.69	ELM2WM101O35KT
		120	25x30	0.20	0.69	ELM2WM101P30KT
30x25			0.20	0.64	ELM2WM101Q25KT	
150		22x40	0.20	0.80	ELM2WM121O40KT	
		25x30	0.20	0.80	ELM2WM121P30KT	
		30x25	0.20	0.80	ELM2WM121Q25KT	
180		35x25	0.20	0.73	ELM2WM121R25KT	
		22x45	0.20	0.88	ELM2WM151O45KT	
		25x35	0.20	0.88	ELM2WM151P35KT	
220		30x30	0.20	0.88	ELM2WM151Q30KT	
		35x25	0.20	0.75	ELM2WM151R25KT	
		22x50	0.20	1.00	ELM2WM181O50KT	
270		25x40	0.20	1.00	ELM2WM181P40KT	
		30x30	0.20	1.00	ELM2WM181Q30KT	
		25x45	0.20	1.12	ELM2WM221P45KT	
330		30x35	0.20	1.12	ELM2WM221Q35KT	
		35x30	0.20	1.12	ELM2WM221R30KT	
		25x60	0.20	1.18	ELM2WM271P60KT	
390		30x40	0.20	1.28	ELM2WM271Q40KT	
		35x35	0.20	1.28	ELM2WM271R35KT	
		30x50	0.20	1.45	ELM2WM331Q50KT	
470		35x40	0.20	1.45	ELM2WM331R40KT	
		30x60	0.20	1.51	ELM2WM391Q60KT	
		35x40	0.20	1.55	ELM2WM391R40KT	
560		35x50	0.20	1.85	ELM2WM471R50KT	
		35x60	0.20	1.91	ELM2WM561R60KT	

WV (Vdc)	Cap (μF)	Size DxL(mm)	tan	Rated ripple current (Arms/105°C, 120Hz)	Part Number
500(2H)	47	22x25	0.20	0.51	ELM2HM470O25KT
	56	22x30	0.20	0.58	ELM2HM560O30KT
	68	25x25	0.20	0.65	ELM2HM680P25KT
		22x35	0.20	0.72	ELM2HM820O35KT
	82	25x30	0.20	0.74	ELM2HM820P30KT
		22x45	0.20	0.83	ELM2HM101O45KT
	100	30x25	0.20	0.82	ELM2HM101Q25KT
		22x50	0.20	0.93	ELM2HM121O50KT
	120	25x35	0.20	0.93	ELM2HM121P35KT
		30x30	0.20	0.91	ELM2HM121Q30KT
	150	25x45	0.20	1.08	ELM2HM151P45KT
		30x35	0.20	1.04	ELM2HM151Q35KT
		35x25	0.20	0.99	ELM2HM151R25KT
	180	25x50	0.20	1.20	ELM2HM181P50KT
		30x40	0.20	1.17	ELM2HM181Q40KT
		35x30	0.20	1.10	ELM2HM181R30KT
	220	30x45	0.20	1.33	ELM2HM221Q45KT
		35x35	0.20	1.23	ELM2HM221R35KT
	270	30x50	0.20	1.50	ELM2HM271O50KT
		35x40	0.20	1.42	ELM2HM271R40KT
	390	35x45	0.20	1.60	ELM2HM331R45KT
		35x50	0.20	1.78	ELM2HM391R50KT
470	35x60	0.20	2.03	ELM2HM471R60KT	
550(2J)	82	22x35	0.20	0.72	ELM2JM820O35KT
		25x30	0.20	0.74	ELM2JM820P30KT
	100	22x45	0.20	0.83	ELM2JM101O45KT
		25x35	0.20	0.85	ELM2JM101P35KT
		30x25	0.20	0.82	ELM2JM101Q25KT
	120	22x50	0.20	0.93	ELM2JM121O50KT
		25x40	0.20	0.95	ELM2JM121P40KT
		30x30	0.20	0.91	ELM2JM121Q30KT
	150	35x25	0.20	0.88	ELM2JM121R25KT
		25x45	0.20	1.08	ELM2JM151P45KT
		30x35	0.20	1.04	ELM2JM151Q35KT
	180	25x50	0.20	1.20	ELM2JM181P50KT
		30x40	0.20	1.17	ELM2JM181Q40KT
		35x30	0.20	1.10	ELM2JM181R30KT
	220	30x45	0.20	1.33	ELM2JM221Q45KT
		35x35	0.20	1.23	ELM2JM221R35KT
		30x50	0.20	1.50	ELM2JM271Q50KT
	270	35x40	0.20	1.42	ELM2JM271R40KT
		35x45	0.20	1.60	ELM2JM331R45KT
		390	35x50	0.20	1.64
	470	35x60	0.20	2.03	ELM2JM471R60KT

Snap-in&Lug Terminal Type