

LC series

- Wide temperature range
- Miniaturized
- Endurance: 2,000 hours at 105°C
- Suitable for charging pile
- RoHS Compliant

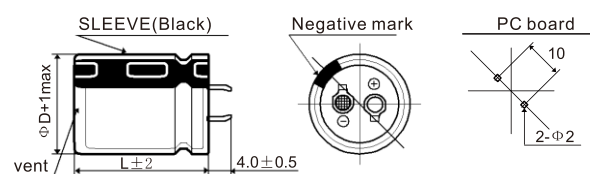


SPECIFICATIONS

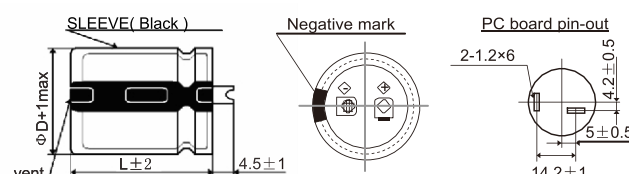
Items	Characteristics			
Category Temperature Range	-40~+105°C			
Rated Voltage Range	400~500V.DC			
Capacitance Tolerance	±20%(M) (at 20°C,120Hz)			
Leakage Current	I≤3√CV Where, I:Max.leakage current (μA),C:Nominal capacitance (μF),V: Rated voltage (V) (at 20°C after 5 minutes)			
Dissipation Factor (tanδ)	Rated Voltage(V _{dc})	400	450,500	(at 20°C,120Hz)
	tanδ (max.)	0.15	0.20	
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage(V _{dc})	400~500		(at 120Hz)
	Z(-25°C)/Z(+20°C)	6		
	Z(-40°C)/Z(+20°C)	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 2,000 hours at 105 °C.			
	Capacitance Change	≤±20% of the initial value		
	D.F. (tanδ)	≤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. (tanδ)	≤150% of the initial specified value		
	Leakage Current	≤200% of the initial specified value		

DIMENSIONS[mm]

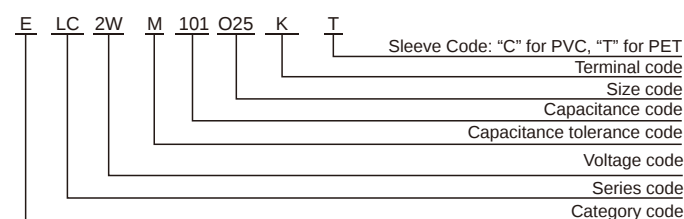
- Terminal Code : K (Φ22 to Φ35) : Standard



- Terminal Code : L (Φ35)



PART NUMBERING SYSTEM



RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current

Rated voltage(V _{dc}) \ Freq.(Hz)	120	1k	10k	100k
400~500	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.

LC series

■ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size ΦDxL(mm)	tanδ	Rated ripple current (Arms/105°C, 120Hz)	Part Number
400(2G)	100	22×25	0.15	0.70	ELC2GM101O25KT
	120	22×30	0.15	0.75	ELC2GM121O30KT
	150	22×30	0.15	0.88	ELC2GM151O30KT
		25×25	0.15	0.88	ELC2GM151P25KT
	180	22×35	0.15	0.95	ELC2GM181O35KT
		25×30	0.15	0.95	ELC2GM181P30KT
	220	22×45	0.15	1.10	ELC2GM221O45KT
		25×35	0.15	1.10	ELC2GM221P35KT
		30×25	0.15	1.10	ELC2GM221Q25KT
	270	22×50	0.15	1.22	ELC2GM271O50KT
		25×40	0.15	1.22	ELC2GM271P40KT
		30×30	0.15	1.22	ELC2GM271Q30KT
		35×25	0.15	1.22	ELC2GM271R25KT
	330	25×45	0.15	1.44	ELC2GM331P45KT
		30×35	0.15	1.44	ELC2GM331Q35KT
		35×30	0.15	1.44	ELC2GM331R30KT
	390	25×50	0.15	1.55	ELC2GM391P50KT
		30×40	0.15	1.55	ELC2GM391Q40KT
		35×30	0.15	1.55	ELC2GM391R30KT
	470	30×45	0.15	1.68	ELC2GM471Q45KT
		35×35	0.15	1.68	ELC2GM471R35KT
	560	30×50	0.15	1.90	ELC2GM561Q50KT
		35×40	0.15	1.90	ELC2GM561R40KT
	680	35×45	0.15	2.12	ELC2GM681R45KT
450(2W)	100	22×25	0.20	0.71	ELC2WM101O25KT
	120	22×30	0.20	0.82	ELC2WM121O30KT
	150	22×35	0.20	0.94	ELC2WM151O35KT
		25×30	0.20	0.89	ELC2WM151P30KT
	180	22×40	0.20	1.05	ELC2WM181O40KT
		25×30	0.20	1.00	ELC2WM181P30KT
	220	22×45	0.20	1.19	ELC2WM221O45KT
		25×35	0.20	1.16	ELC2WM221P35KT
		30×30	0.20	1.11	ELC2WM221Q30KT
	270	22×50	0.20	1.36	ELC2WM271O50KT
		25×40	0.20	1.32	ELC2WM271P40KT
		30×30	0.20	1.26	ELC2WM271Q30KT
		35×25	0.20	1.26	ELC2WM271R25KT
	330	25×50	0.20	1.52	ELC2WM331P50KT
		30×35	0.20	1.45	ELC2WM331Q35KT
		35×30	0.20	1.45	ELC2WM331R30KT
	390	30×40	0.20	1.63	ELC2WM391Q40KT
	470	30×45	0.20	1.85	ELC2WM471Q45KT
		30×50	0.20	1.90	ELC2WM471Q50KT
		35×35	0.20	1.77	ELC2WM471R35KT
	560	35×40	0.20	2.02	ELC2WM561R40KT
	680	35×50	0.20	2.36	ELC2WM681R50KT

WV (Vdc)	Cap (μF)	Size ΦDxL(mm)	tanδ	Rated ripple current (Arms/105°C, 120Hz)	Part Number
500(2H)	47	22×25	0.20	0.51	ELC2HM470O25KT
	56	22×25	0.20	0.58	ELC2HM560O25KT
	68	25×25	0.20	0.65	ELC2HM680P25KT
	82	22×35	0.20	0.72	ELC2HM820O35KT
		25×30	0.20	0.74	ELC2HM820P30KT
	100	22×40	0.20	0.83	ELC2HM101O40KT
		25×30	0.20	0.82	ELC2HM101P30KT
	120	22×45	0.20	0.93	ELC2HM121O45KT
		25×35	0.20	0.93	ELC2HM121P35KT
		30×30	0.20	0.91	ELC2HM121Q30KT
	150	25×40	0.20	1.08	ELC2HM151P40KT
		30×35	0.20	1.04	ELC2HM151Q35KT
		35×25	0.20	0.99	ELC2HM151R25KT
		25×50	0.20	1.20	ELC2HM181P50KT
	180	30×40	0.20	1.17	ELC2HM181Q40KT
		35×30	0.20	1.10	ELC2HM181R30KT
		30×45	0.20	1.33	ELC2HM221Q45KT
	220	35×35	0.20	1.23	ELC2HM221R35KT
		30×50	0.20	1.50	ELC2HM271Q50KT
	270	35×40	0.20	1.42	ELC2HM271R40KT
		35×45	0.20	1.60	ELC2HM331R45KT
	390	35×50	0.20	1.78	ELC2HM391R50KT
	470	35×60	0.20	2.03	ELC2HM471R60KT