

LP series

- Longer life, high ripple current series
- Endurance: 3,000 hours at 105°C
- RoHS Compliant

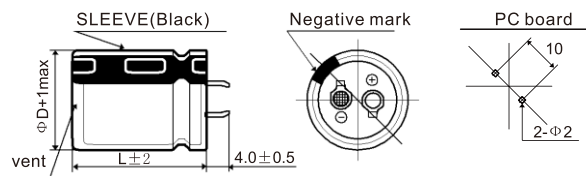


SPECIFICATIONS

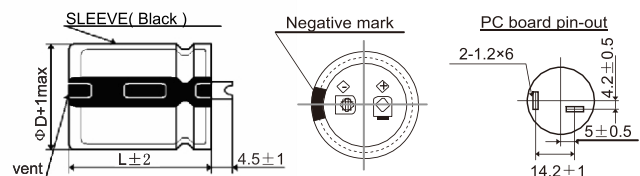
Items	Characteristics		
Category Temperature Range	-40~+105°C		
Rated Voltage Range	400~450V.DC		
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)		
Leakage Current	$I \leq 3\sqrt{CV}$ Where, I:Max.leakage current (μA), C:Nominal capacitance (μF), V: Rated voltage (V) (at 20°C after 5 minutes)		
Dissipation Factor (tan δ)	Rated Voltage(V _{dc})	400	420,450
	tan δ (max.)	0.15	0.20
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage(V _{dc})	400~450	
	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 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]

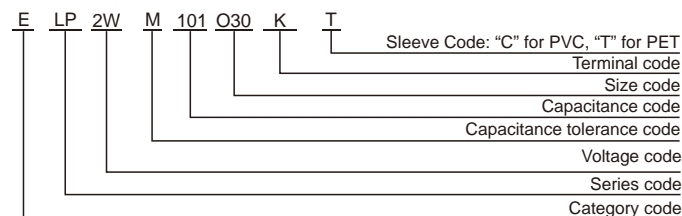
- Terminal Code : K (22 to 35) : Standard



- 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
400~450	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.

LP series

■ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size DxL(mm)	tan	Rated ripple current (Arms/105°C, 120Hz)	Part Number
400(2G)	100	22x25	0.15	0.85	ELP2GM101O25KT
	120	22x30	0.15	1.01	ELP2GM121O30KT
		25x25	0.15	1.04	ELP2GM121P25KT
	150	22x35	0.15	1.15	ELP2GM151O35KT
		22x40	0.15	1.27	ELP2GM181O40KT
	180	25x30	0.15	1.22	ELP2GM181P30KT
		30x25	0.15	1.35	ELP2GM181Q25KT
		22x45	0.15	1.40	ELP2GM221O45KT
	220	25x35	0.15	1.40	ELP2GM221P35KT
		30x30	0.15	1.56	ELP2GM221Q30KT
		22x50	0.15	1.55	ELP2GM271O50KT
	270	25x40	0.15	1.55	ELP2GM271P40KT
		30x35	0.15	1.78	ELP2GM271Q35KT
		35x25	0.15	1.78	ELP2GM271R25KT
	330	25x50	0.15	1.83	ELP2GM331P50KT
		30x40	0.15	2.00	ELP2GM331Q40KT
		35x30	0.15	1.95	ELP2GM331R30KT
	390	30x45	0.15	2.20	ELP2GM391Q45KT
		35x35	0.15	2.20	ELP2GM391R35KT
	470	30x50	0.15	2.38	ELP2GM471Q50KT
35x40		0.15	2.49	ELP2GM471R40KT	
560	35x45	0.15	2.74	ELP2GM561R45KT	
680	35x50	0.15	2.95	ELP2GM681R50KT	
420(2T)	100	22x25	0.20	0.89	ELP2TM101O25KT
	120	22x30	0.20	1.06	ELP2TM121O30KT
		25x25	0.20	1.09	ELP2TM121P25KT
	150	22x35	0.20	1.21	ELP2TM151O35KT
		22x40	0.20	1.34	ELP2TM181O40KT
	180	25x30	0.20	1.28	ELP2TM181P30KT
		30x25	0.20	1.42	ELP2TM181Q25KT
		22x45	0.20	1.47	ELP2TM221O45KT
	220	22x50	0.20	1.60	ELP2TM221O50KT
		25x35	0.20	1.47	ELP2TM221P35KT
		30x30	0.20	1.64	ELP2TM221Q30KT
		35x25	0.20	1.64	ELP2TM221R25KT
	270	25x40	0.20	1.63	ELP2TM271P40KT
		25x45	0.20	1.79	ELP2TM271P45KT
		30x35	0.20	1.87	ELP2TM271Q35KT
	330	25x50	0.20	1.93	ELP2TM331P50KT
		30x40	0.20	2.10	ELP2TM331Q40KT
		35x30	0.20	2.05	ELP2TM331R30KT
	390	30x45	0.20	2.32	ELP2TM391Q45KT
		35x35	0.20	2.32	ELP2TM391R35KT
470	30x50	0.20	2.51	ELP2TM471Q50KT	
	35x40	0.20	2.62	ELP2TM471R40KT	
560	35x45	0.20	2.88	ELP2TM561R45KT	
680	35x50	0.20	3.10	ELP2TM681R50KT	
820	35x60	0.20	3.50	ELP2TM821R60KT	

WV (Vdc)	Cap (μF)	Size DxL(mm)	tan	Rated ripple current (Arms/105°C, 120Hz)	Part Number
450(2W)	82	22x25	0.20	0.81	ELP2WM820O25KT
	100	22x30	0.20	0.97	ELP2WM101O30KT
		25x25	0.20	1.04	ELP2WM101P25KT
	120	22x35	0.20	1.08	ELP2WM121O35KT
		22x40	0.20	1.22	ELP2WM151O40KT
	150	25x35	0.20	1.31	ELP2WM151P35KT
		30x25	0.20	1.31	ELP2WM151Q25KT
		22x45	0.20	1.35	ELP2WM181O45KT
	180	22x50	0.20	1.42	ELP2WM181O50KT
		25x40	0.20	1.35	ELP2WM181P40KT
		30x30	0.20	1.49	ELP2WM181Q30KT
		35x25	0.20	1.60	ELP2WM181R25KT
	220	25x45	0.20	1.55	ELP2WM221P45KT
		30x35	0.20	1.71	ELP2WM221Q35KT
		25x50	0.20	1.74	ELP2WM271P50KT
	270	30x40	0.20	1.90	ELP2WM271Q40KT
		35x30	0.20	1.90	ELP2WM271R30KT
		30x45	0.20	2.20	ELP2WM331Q45KT
	330	35x35	0.20	2.20	ELP2WM331R35KT
		30x50	0.20	2.40	ELP2WM391Q50KT
390	35x40	0.20	2.42	ELP2WM391R40KT	
	470	35x45	0.20	2.67	ELP2WM471R45KT
560	35x50	0.20	2.85	ELP2WM561R50KT	
680	35x60	0.20	3.15	ELP2WM681R60KT	
820	35x70	0.20	3.48	ELP2WM821R70KT	

Snap-in&Lug Terminal Type