

LP series

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



SPECIFICATIONS

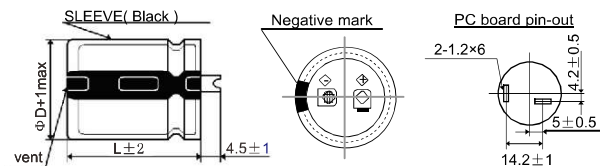
Items	Characteristics			
Category Temperature Range	-40~+105°C			
Rated Voltage Range	400~450V.DC			
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)			
Leakage Current	$I \leq 3\sqrt{CV}$ Where, I:Max.leakage current (µA),C:Nominal capacitance (µF),V: Rated voltage (V) (at 20°C after 5 minutes)			
Dissipation Factor (tanδ)	Rated Voltage(V _{dc})	400	420,450	(at 20°C, 120Hz)
	tanδ (max.)	0.15	0.20	
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage(V _{dc})	400~450		(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 3,000 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]

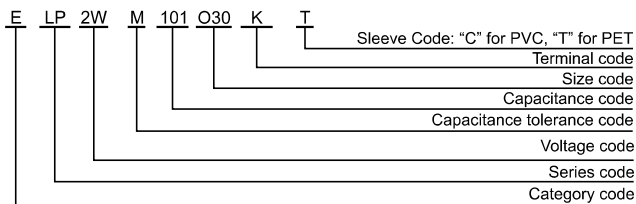
- Terminal Code : K (Φ22 to Φ35) : Standard



- 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
400~450	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 ΦDxL(mm)	tanδ	Rated ripple current (Arms/105°C, 120Hz)	Part Number
400(2G)	100	22×25	0.15	0.85	ELP2GM101O25KT
		22×30	0.15	1.01	ELP2GM121O30KT
	120	25×25	0.15	1.04	ELP2GM121P25KT
		22×35	0.15	1.15	ELP2GM151O35KT
	180	22×40	0.15	1.27	ELP2GM181O40KT
		25×30	0.15	1.22	ELP2GM181P30KT
		30×25	0.15	1.35	ELP2GM181Q25KT
	220	22×45	0.15	1.40	ELP2GM221O45KT
		25×35	0.15	1.40	ELP2GM221P35KT
		30×30	0.15	1.56	ELP2GM221Q30KT
	270	22×50	0.15	1.55	ELP2GM271O50KT
		25×40	0.15	1.55	ELP2GM271P40KT
		30×35	0.15	1.78	ELP2GM271Q35KT
		35×25	0.15	1.78	ELP2GM271R25KT
	330	25×50	0.15	1.83	ELP2GM331P50KT
		30×40	0.15	2.00	ELP2GM331Q40KT
		35×30	0.15	1.95	ELP2GM331R30KT
	390	30×45	0.15	2.20	ELP2GM391Q45KT
		35×35	0.15	2.20	ELP2GM391R35KT
	470	30×50	0.15	2.38	ELP2GM471Q50KT
35×40		0.15	2.49	ELP2GM471R40KT	
560	35×45	0.15	2.74	ELP2GM561R45KT	
680	35×50	0.15	2.95	ELP2GM681R50KT	
420(2T)	100	22×25	0.20	0.89	ELP2TM101O25KT
		22×30	0.20	1.06	ELP2TM121O30KT
	120	25×25	0.20	1.09	ELP2TM121P25KT
		22×35	0.20	1.21	ELP2TM151O35KT
	180	22×40	0.20	1.34	ELP2TM181O40KT
		25×30	0.20	1.28	ELP2TM181P30KT
		30×25	0.20	1.42	ELP2TM181Q25KT
	220	22×45	0.20	1.47	ELP2TM221O45KT
		22×50	0.20	1.60	ELP2TM221O50KT
		25×35	0.20	1.47	ELP2TM221P35KT
		30×30	0.20	1.64	ELP2TM221Q30KT
	270	35×25	0.20	1.64	ELP2TM221R25KT
		25×40	0.20	1.63	ELP2TM271P40KT
		25×45	0.20	1.79	ELP2TM271P45KT
	330	30×35	0.20	1.87	ELP2TM271Q35KT
		25×50	0.20	1.93	ELP2TM331P50KT
		30×40	0.20	2.10	ELP2TM331Q40KT
	390	35×30	0.20	2.05	ELP2TM331R30KT
		30×45	0.20	2.32	ELP2TM391Q45KT
	470	35×35	0.20	2.32	ELP2TM391R35KT
30×50		0.20	2.51	ELP2TM471Q50KT	
560	35×40	0.20	2.62	ELP2TM471R40KT	
	35×45	0.20	2.88	ELP2TM561R45KT	
680	35×50	0.20	3.10	ELP2TM681R50KT	
820	35×60	0.20	3.50	ELP2TM821R60KT	

WV (Vdc)	Cap (μF)	Size ΦDxL(mm)	tanδ	Rated ripple current (Arms/105°C, 120Hz)	Part Number
450(2W)	82	22×25	0.20	0.81	ELP2WM820O25KT
		22×30	0.20	0.97	ELP2WM101O30KT
	100	25×25	0.20	1.04	ELP2WM101P25KT
		22×35	0.20	1.08	ELP2WM121O35KT
	150	22×40	0.20	1.22	ELP2WM151O40KT
		25×35	0.20	1.31	ELP2WM151P35KT
		30×25	0.20	1.31	ELP2WM151Q25KT
	180	22×45	0.20	1.35	ELP2WM181O45KT
		22×50	0.20	1.42	ELP2WM181O50KT
		25×40	0.20	1.35	ELP2WM181P40KT
		30×30	0.20	1.49	ELP2WM181Q30KT
	220	35×25	0.20	1.60	ELP2WM181R25KT
		25×45	0.20	1.55	ELP2WM221P45KT
		30×35	0.20	1.71	ELP2WM221Q35KT
	270	25×50	0.20	1.74	ELP2WM271P50KT
		30×40	0.20	1.90	ELP2WM271Q40KT
		35×30	0.20	1.90	ELP2WM271R30KT
	330	30×45	0.20	2.20	ELP2WM331Q45KT
		35×35	0.20	2.20	ELP2WM331R35KT
	390	30×50	0.20	2.40	ELP2WM391Q50KT
35×40		0.20	2.42	ELP2WM391R40KT	
470	35×45	0.20	2.67	ELP2WM471R45KT	
560	35×50	0.20	2.85	ELP2WM561R50KT	
680	35×60	0.20	3.15	ELP2WM681R60KT	
820	35×70	0.20	3.48	ELP2WM821R70KT	

Snap-in&Lug Terminal Type