



PL Series

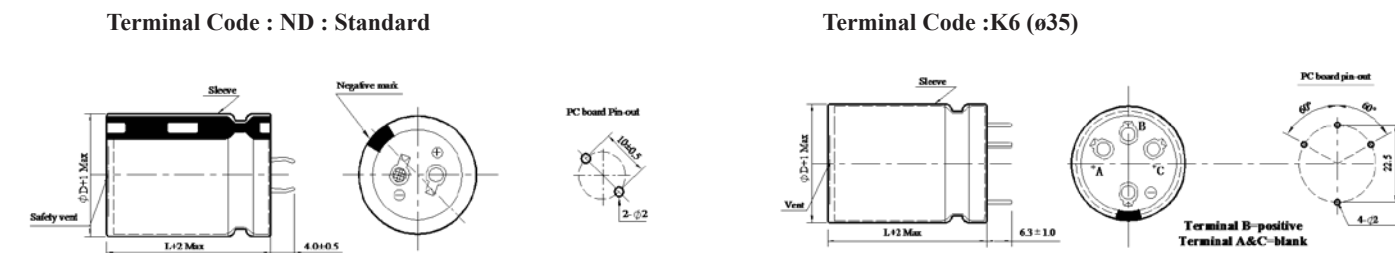
- Load life 2,000 hours at 105°C .
- Large size for PCB board mounting hole type



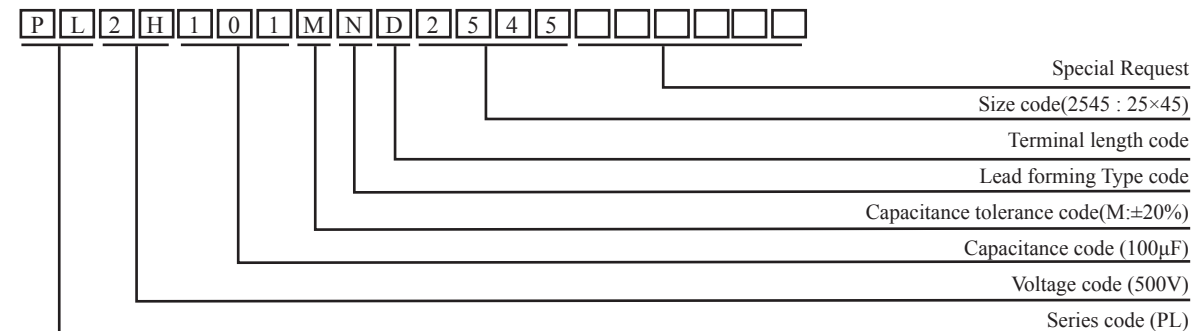
◆ SPECIFICATIONS

Item	Performance Characteristics									
	-40 ~ +105°C					-25 ~ +105°C				
Category Temperature Range	-40 ~ +105°C					-25 ~ +105°C				
Working Voltage Range	16 ~ 100Vdc					160 ~ 500Vdc				
Capacitance Range	560 ~ 47,000µF					47 ~ 2,200µF				
Capacitance Tolerance	± 20% (at 25°C and 120Hz)									
Dissipation Factor (tan δ) (at 25°C, 120Hz)	Rated Voltage (V)	16	25	35	50	63	80	100 ~ 250	350 ~ 450	500
	tanδ(Max)	0.35	0.35	0.25	0.25	0.25	0.20	0.15	0.15	0.20
Leakage Current	I=0.02CV or 3000µA, whichever is smaller I : Leakage current (µA) C : Rated capacitance (µF) V : Rated voltage (V) Impress the rated voltage for 5 minutes.									
Endurance	The following requirements shall be satisfied when the capacitor are restored to 25°C after the rated voltage applied for 2,000 hours (1,000 hours for WV ≒ 100V) at 105°C.									
	Capacitance change	≒ ± 20% of the initial value								
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 25°C after exposing them for 500 hours at 105°C without voltage applied.									
	Capacitance change	≒ ± 20% of the initial value								
Others	Conforms to JIS-C-5101-4 (1998), characteristic W.									

◆ DIMENSIONS (mm)



◆ PART NUMBERING SYSTEM (Example : 500V 100µF)



PL Series

- ◆ Case size & Permissible rated ripple current: (mA rms) at 105°C / 120Hz

Vdc uF ΦD	16								Vdc uF ΦD	25							
	Φ22		Φ25		Φ30		Φ35			Φ22		Φ25		Φ30		Φ35	
	ΦD x L	RC	ΦD x L	RC	ΦD x L	RC	ΦD x L	RC		ΦD x L	RC	ΦD x L	RC	ΦD x L	RC	ΦD x L	RC
6800	22x25	1490							4700	22x25	1425						
10000	22x31	1870	25x25	1870					5600	22x25	1545						
12000	22x35	2100	25x31	2100	30x25	2100			6800	22x31	1765	25x25	1765				
15000	22x41	2450	25x35	2450	30x25	2450			8200	22x35	2000	25x31	2000	30x25	2000		
18000	22x45	2725	25x41	2725	30x31	2725	35x25	2725	10000	22x41	2270	25x35	2270	30x25	2270		
22000			25x45	3150	30x35	3150	35x25	3150	12000	22x45	2600	25x41	2600	30x31	2600	35x25	2600
27000			25x51	3580	30x41	3580	35x31	3580	15000			25x45	3100	30x35	3100	35x31	3100
33000					30x45	4080	35x35	4080	18000			25x51	3360	30x41	3360	35x31	3360
39000					30x51	4565	35x41	4565	22000					30x45	3800	35x35	3800
47000							35x45	5155	27000							35x45	4490

Vdc uF ΦD	35								Vdc uF ΦD	50							
	Φ22		Φ25		Φ30		Φ35			Φ22		Φ25		Φ30		Φ35	
	ΦD x L	RC	ΦD x L	RC	ΦD x L	RC	ΦD x L	RC		ΦD x L	RC	ΦD x L	RC	ΦD x L	RC	ΦD x L	RC
3300	22x25	1330							1800	22x25	1260						
3900	22x31	1490							2200	22x31	1600	25x25	1600				
4700	22x31	1630	25x25	1630					3300	22x35	1830	25x31	1830				
5600	22x35	1860	25x31	1860	30x25	1860			3900	22x41	2070	25x35	2070	30x25	2070		
6800	22x41	2090	25x35	2090	30x25	2090			4700	22x45	2355	25x35	2355	30x31	2355	35x25	2355
8200	22x45	2610	25x41	2610	30x31	2610	35x25	2610	5600	22x51	2565	25x41	2565	30x35	2565	35x25	2565
10000			25x45	2755	30x35	2755	35x31	2755	6800			25x51	3135	30x41	3135	35x31	3135
12000			25x51	3075	30x41	3075	35x31	3075	8200					30x45	3420	35x35	3420
15000					30x45	3530	35x35	3530	10000					30x51	3825	35x41	3825
18000							35x41	4150	12000							35x45	4320
22000							35x51	4670	15000								

Vdc uF ΦD	63								Vdc uF ΦD	80							
	Φ22		Φ25		Φ30		Φ35			Φ22		Φ25		Φ30		Φ35	
	ΦD x L	RC	ΦD x L	RC	ΦD x L	RC	ΦD x L	RC		ΦD x L	RC	ΦD x L	RC	ΦD x L	RC	ΦD x L	RC
1200	22x25	1130							820	22x25	1050						
1500	22x25	1260							1000	22x25	1155						
1800	22x31	1440	25x25	1440					1200	22x31	1320	25x25	1320				
2200	22x35	1650	25x31	1650					1500	22x35	1525	25x31	1525				
2700	22x41	1890	25x35	1890	30x25	1890			1800	22x41	1710	25x31	1710	30x25	1710		
3300	22x51	2155	25x41	2155	30x31	2155	35x25	2155	2200	22x45	1965	25x35	1965	30x31	1965	35x25	1965
3900			25x45	2420	30x35	2420	35x25	2420	2700			25x45	2240	30x35	2240	35x25	2240
4700			25x51	2715	30x41	2715	35x31	2715	3300			25x51	2545	30x41	2545	35x31	2545
5600					30x45	3055	35x35	3055	3900					30x45	2850	35x35	2850
6800					30x51	3465	35x41	3465	4700					30x51	3220	35x41	3220
8200							35x45	3700	5600							35x45	3610
10000							35x51	4180	6800							35x51	3700



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◆ Case size & Permissible rated ripple current: (mA rms) at 105°C / 120Hz

Vdc uF ΦD	100								Vdc uF ΦD	160							
	Φ22		Φ25		Φ30		Φ35			Φ22		Φ25		Φ30		Φ35	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC		ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
560	22×25	995							220	22×25	760						
820	22×31	1260	25×25	1260					330	22×25	1140	25×25	1140				
1000	22×35	1425	25×31	1425					390	22×31	1215	25×25	1215	30×25	1215		
1200	22×41	1620	25×35	1620	30×25	1620			470	22×35	1330	25×25	1330	30×25	1330		
1500	22×45	1880	25×41	1880	30×31	1880	35×25	1880	560	22×41	1460	25×31	1460	30×25	1460	35×25	1460
1800			25×45	2115	30×35	2115	35×25	2115	680	22×45	1615	25×35	1615	30×25	1615	35×25	1615
2200			25×51	2565	30×41	2565	35×31	2565	820	22×51	1900	25×41	1900	30×31	1900	35×25	1900
2700					30×45	2735	35×35	2735	1000			25×45	2110	30×35	2110	35×25	2110
3300					30×51	3115	35×41	3115	1200			25×51	2315	30×41	2315	35×31	2315
3900							35×45	3485	1500					30×45	2675	35×35	2675
4700							35×51	3610	1800					30×51	3140	35×45	3140
5600									2200							35×51	3580

Vdc uF ΦD	200								Vdc uF ΦD	220							
	Φ22		Φ25		Φ30		Φ35			Φ22		Φ25		Φ30		Φ35	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC		ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
150	22×25	625							150	22×25	650						
180	22×25	680							180	22×25	695						
220	22×25	750	25×25	750					220	22×25	800	25×25	800				
330	22×31	1140	25×25	1140	30×25	1140			330	22×31	1160	25×25	1160	30×25	1160		
390	22×35	1240	25×25	1240	30×25	1240			390	22×41	1300	25×31	1300	30×25	1300	35×25	1300
470	22×41	1335	25×31	1335	30×25	1335	35×25	1335	470	22×45	1355	25×35	1355	30×31	1355	35×25	1355
560	22×45	1480	25×35	1480	30×25	1480	35×25	1480	560	22×51	1550	25×41	1550	30×35	1550	35×25	1550
680	22×51	1650	25×41	1650	30×31	1650	35×25	1650	680			25×45	1700	30×41	1700	35×31	1700
820			25×51	1935	30×35	1935	35×31	1935	820			25×51	1820	30×45	1820	35×31	1820
1000					30×45	2185	35×35	2185	1000					30×51	2010	35×35	2010
1200					30×51	2515	35×41	2515	1200							35×41	2200
1500							35×45	2925	1500							35×45	2460

Vdc uF ΦD	250								Vdc uF ΦD	400							
	Φ22		Φ25		Φ30		Φ35			Φ22		Φ25		Φ30		Φ35	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC		ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
120	22×25	560							47	22×25	350						
150	22×25	675							68	22×25	480	25×25	480				
180	22×25	710	25×25	710					82	22×31	600	25×25	600				
220	22×31	870	25×25	870	30×25	870			100	22×31	635	25×25	635	30×25	635		
330	22×41	1195	25×31	1195	30×25	1195	35×25	1195	120	22×35	680	25×31	680	30×25	680		
390	22×45	1415	25×35	1415	30×25	1415	35×25	1415	150	22×41	795	25×35	795	30×25	795	35×25	795
470	22×51	1490	25×41	1490	30×31	1490	35×25	1490	180	22×51	890	25×41	890	30×31	890	35×25	890
560			25×45	1700	30×35	1700	35×31	1700	220			25×45	1015	30×35	1015	35×31	1015
680			25×51	1870	30×41	1870	35×31	1870	330					30×45	1280	35×35	1280
820					30×45	1880	35×35	1880	390					30×51	1460	35×41	1460
1000							35×41	2185	470							35×45	1650
1200							35×45	2300									



PL Series

◆ Case size & Permissible rated ripple current: (mA rms) at 105°C / 120Hz

Vdc uF ΦD	420								Vdc uF ΦD	450							
	Φ22		Φ25		Φ30		Φ35			Φ22		Φ25		Φ30		Φ35	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC		ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
47	22×25	370							47								
68	22×25	505	25×25	505					68	22×31	475	25×25	475				
82	22×31	550	25×25	550					82	22×35	520	25×25	520				
100	22×31	605	25×25	605	30×25	605			100	22×41	600	25×31	600	30×25	600		
120	22×35	665	25×31	665	30×25	665			120	22×45	680	25×35	680	30×25	680		
150	22×41	740	25×35	740	30×25	740	35×25	740	150	22×51	710	25×41	710	30×31	710	35×25	710
180	22×51	810	25×41	810	30×31	810	35×25	810	180			25×45	825	30×35	825	35×31	825
220			25×45	900	30×35	900	35×31	900	220			25×51	930	30×41	930	35×31	930
330					30×45	1295	35×35	1295	330					30×51	1310	35×41	1310
390					30×51	1465	35×41	1465	390							35×45	1470
470							35×45	1600	470							35×51	1630

Vdc uF ΦD	500							
	Φ22		Φ25		Φ30		Φ35	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
39	22×31	350						
47	22×35	410						
56	22×41	470						
68	22×45	540						
82	22×41	620						
100			25×45	670				
120			25×51	770			35×31	720
150					30×41	850		
180					30×51	1010		
220							35×45	1120
270							35×51	1290

◆ RIPPLE CURRENT MULTIPLIERS
Frequency Multipliers

Vdc	Frequency (Hz)				
	50/60	120	1K	10K	100K
16 ~ 100	0.90	1.00	1.15	1.15	1.15
160 ~ 250	0.80	1.00	1.15	1.17	1.20
350 ~ 500	0.90	1.00	1.10	1.12	1.15

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