

LPR Series

PCB Snap-In Large Capacitors



Features:

- LPR series large size capacitors with the specially designed "self-standing" terminals can be directly soldered to printed circuit boards without holders.
- Easy fixing to PCBs without need for holders.
- General purpose snap-in aluminium electrolytic.

Specifications

No.	Item	Performance																																	
1	Operating Temperature Range	-40 to +85°C	-25 to +85°C																																
2	Rated Working Voltage Range	16 to 100V dc	400V dc																																
3	Nominal Capacitance Range	1000 to 22,000µF	47 to 470µF																																
4	Capacitance Tolerance	±20% (at +20°C, 120Hz).																																	
5	Leakage Current	I = 0.02CV or 3000µA maximum, Whichever is greater after 3 minutes. I: Leakage Current (µA). C: Rated Capacitance (µF). V: Working Voltage (V).																																	
6	Dissipation Factor (tanδ) (120Hz/+20°C)	<table border="1"> <thead> <tr> <th>µF \ W. V</th> <th>16</th> <th>25-35</th> <th>50-63</th> <th>100</th> <th>400</th> </tr> </thead> <tbody> <tr> <td>47 - 220</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>0.20</td> </tr> <tr> <td>470 - 2200</td> <td>0.25</td> <td colspan="3">0.20</td> <td>-</td> </tr> <tr> <td>4700 - 6800</td> <td>0.35</td> <td colspan="2">0.30</td> <td>0.25</td> <td>-</td> </tr> <tr> <td>10,000 - 22,000</td> <td>0.40</td> <td>0.35</td> <td>0.30</td> <td>-</td> <td>-</td> </tr> </tbody> </table>				µF \ W. V	16	25-35	50-63	100	400	47 - 220	-	-	-	-	0.20	470 - 2200	0.25	0.20			-	4700 - 6800	0.35	0.30		0.25	-	10,000 - 22,000	0.40	0.35	0.30	-	-
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		Less than the value under table.																																	
7	Characteristics at low temperature (stability at 120Hz)	Impedance ratio at 100Hz Z -25°C/Z 20°C : 3 maximum Z -40°C/Z 20°C : 12 maximum																																	

Specifications

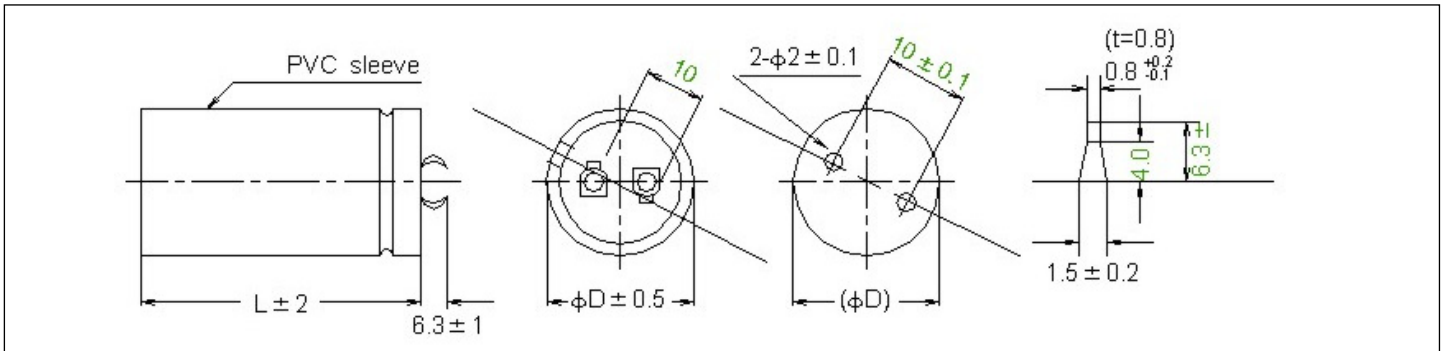
No.	Item	Performance																							
8	Ripple Current	Correction factor for frequency																							
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9	High Temperature Loading	After 2000 hours application of DC rated working voltage at +85°C, The capacitor shall meet the following limits: Post test requirements at +20°C.																							
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Diagram of Dimensions



Case Size Table & Permissible Ripple Current

R.C. (Ripple Current) (A): At 120Hz, 85°C

Working Voltage	Capacitance (µF)	Case Size (Diameter x Height)	Ripple Current	Part Number
16 (20)	4700	22 x 25	2.3	MCLPR16V478M22X25
	10,000		3.32	MCLPR16V109M22X25
	15,000	22 x 35	4.29	MCLPR16V159M22X35
25 (32)	4700	22 x 25	2.5	MCLPR25V478M22X25
	6800	22 x 30	3.06	MCLPR25V688M22X30
	10,000	30 x 25	3.99	MCLPR25V109M30X25
	15,000	30 x 35	5.1	MCLPR25V159M30X35
	22,000	30 x 45	6.22	MCLPR25V229M30X45
35 (44)	2200	22 x 25	1.8	MCLPR35V228M22X25
	4700	22 x 30	3.06	MCLPR35V478M22X30
	6800	26 x 30	3.57	MCLPR35V688M26X30
	10,000	30 x 30	4.58	MCLPR35V109M30X30
	22,000	35 x 45	7.07	MCLPR35V229M35X45
50 (63)	2200	22 x 25	2.3	MCLPR50V228M22X25
	4700	30 x 25	3.86	MCLPR50V478M30X25
	10,000	35 x 35	5.97	MCLPR50V109M35X35
63 (79)	2200	26 x 25	2.58	MCLPR63V228M26X25
	4700	26 x 40	4.19	MCLPR63V478M26X40
	6800	30 x 40	5.16	MCLPR63V688M30X40
	10,000	30 x 50	6.32	MCLPR63V109M30X50
100 (125)	1000	22 x 30	2.3	MCLPR100V108M22X30
	2200	26 x 40	3.74	MCLPR100V228M26X40
	4700	30 x 50	5.86	MCLPR100V478M30X50
400	47	22 x 25	0.4	MCLPR400V476M22X25
	100	22 x 30	0.78	MCLPR400V107M22X30
	220	26 x 40	1.41	MCLPR400V227M26X40
	470	35 x 40	2.4	MCLPR400V477M35X40

Dimensions : Millimetres



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Part Number Explanation:

MCLPR

Type

16V

Voltage

107

Capacitance

M

Tolerance

22X25

Case Size

Voltage

: 16, 25, 35, 50, 63, 100 and 400V.

Capacitance (μF)

: First two digits are the base value and last digit represents the numbers of zeros to follow.

Last digit 7 represents one zero in base value,

in code 107, Capacitance is 100, similarly for 227 capacitance is 220.

Last digit 8 represents two zero in base value,

in code 228, Capacitance is 2,200, similarly for 688 capacitance is 6800.

Last digit 6 represents no change in base value,

in code 476, capacitance value is 47.

Tolerance

: M = $\pm 20\%$.

Case Size

: Diameter x Height.

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Notes:

International Sales Offices:



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++ 44 8450 510 130



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