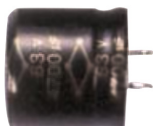


Electrolytic Capacitors

MCLPR Series



Features:

- Material : Aluminium.
- Large size snap-In.
- MCLPR series large size capacitors with the specially designed terminals have “self-standing” and can be directly soldered to printed circuit boards without holders.
- They are easily to fixing to printed circuit boards due to the specially designed terminals.

Specifications:

| Item | Performance | | | | | | |
|---|--|----------------|-------|--------------------|--------|---------|-----------|
| Operating Temperature Range | -40°C to +85°C | -25°C to +85°C | | | | | |
| Rated Working Voltage Range | 10 - 100V DC | 160 - 450V DC | | | | | |
| Nominal Capacitance Range | 470 - 68,000µF | 47 - 2,700µF | | | | | |
| Capacitance Tolerance | ±20% (at +20°C, 120Hz) | | | | | | |
| Leakage Current | $I = 0.02CV$ or 3,000(µA) max. Whichever is greater after 3 minutes I : Leakage Current (µA) C : Rated Capacitance (µF) V : Working Voltage(v) | | | | | | |
| Dissipation Factor (tan δ) (120Hz \ +20°C) | W.V. µF | 10-16 | 25-35 | 50-63 | 80-100 | 160-250 | 315 - 400 |
| | 47 - 330 | | | | | 0.15 | 0.2 |
| | 470 - 3300 | 0.25 | 0.2 | 0.2 | 0.2 | 0.15 | 0.2 |
| | 4700 - 6800 | 0.35 | 0.3 | 0.3 | 0.25 | | |
| | 10000 - 22000 | 0.4 | 0.35 | 0.3 | | | |
| | 27000 - 47000 | 0.45 | 0.4 | 0.35 | | | |
| | 56000 - 68000 | 0.5 | 0.45 | | | | |
| Less than the value under table | | | | | | | |
| Characteristics at low temperature (Stability at 120 Hz) | Impedance ratio at 100Hz $Z_{-25°C}/Z_{20°C}$: 3 max. $Z_{-40°C}/Z_{20°C}$: 12 max. | | | | | | |
| Ripple Current | Refer to standard products table (120Hz, +85°C). Correction factor for frequency. | | | | | | |
| | Ambient Temp. | | | Multiplying Factor | | | |
| | 45°C & under | | | 1.55 | | | |
| | 60°C | | | 1.3 | | | |
| | 70°C | | | 1.2 | | | |
| 85°C | | | 1 | | | | |



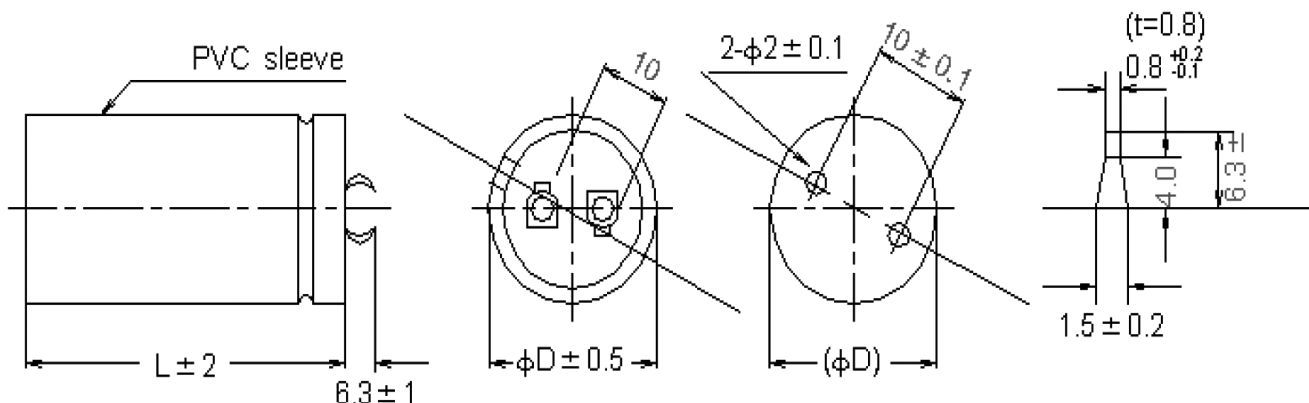
Electrolytic Capacitors

MCLPR Series



| Item | Performance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---------------------------------|-------------------------------|--------------------|---------------------------------|---------------------------|----------------------------------|-----------|------------|------------|------|-----|-----|-----|-----|-------|---|---|---|---|------|------|------|------|-----|-------|-----|-----|------|-----|--------|-----|-----|-----|------|
| Ripple Current | Refer to standard products table (120Hz, +85°C) Correction factor for frequency. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th rowspan="2">Frequency</th> <th colspan="4">Multiplying Factor</th> </tr> <tr> <th>10 - 35V</th> <th>50 - 100V</th> <th>160 - 250V</th> <th>315 - 450V</th> </tr> </thead> <tbody> <tr> <td>60Hz</td> <td>0.9</td> <td>0.9</td> <td>0.8</td> <td>0.9</td> </tr> <tr> <td>120Hz</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td>1kHz</td> <td>1.05</td> <td>1.15</td> <td>1.35</td> <td>1.3</td> </tr> <tr> <td>10kHz</td> <td>1.1</td> <td>1.2</td> <td>1.45</td> <td>1.4</td> </tr> <tr> <td>100kHz</td> <td>1.1</td> <td>1.2</td> <td>1.5</td> <td>1.45</td> </tr> </tbody> </table> | Frequency | Multiplying Factor | | | | 10 - 35V | 50 - 100V | 160 - 250V | 315 - 450V | 60Hz | 0.9 | 0.9 | 0.8 | 0.9 | 120Hz | 1 | 1 | 1 | 1 | 1kHz | 1.05 | 1.15 | 1.35 | 1.3 | 10kHz | 1.1 | 1.2 | 1.45 | 1.4 | 100kHz | 1.1 | 1.2 | 1.5 | 1.45 |
| | Frequency | | Multiplying Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 10 - 35V | 50 - 100V | 160 - 250V | 315 - 450V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 60Hz | 0.9 | 0.9 | 0.8 | 0.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 120Hz | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1kHz | 1.05 | 1.15 | 1.35 | 1.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10kHz | 1.1 | 1.2 | 1.45 | 1.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100kHz | 1.1 | 1.2 | 1.5 | 1.45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High Temperature Loading | After 2,000hrs. Application of DC rated working voltage at +85°C, the capacitor shall meet the following limits: Post test requirements at +20°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <tbody> <tr> <td>Leakage current</td> <td>≤ the Initial specified value</td> </tr> <tr> <td>Capacitance change</td> <td>≤±20% of initial measured value</td> </tr> <tr> <td>Dissipation Factor (tanδ)</td> <td>≤200% of initial specified value</td> </tr> </tbody> </table> | Leakage current | ≤ the Initial specified value | Capacitance change | ≤±20% of initial measured value | Dissipation Factor (tanδ) | ≤200% of initial specified value | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Leakage current | ≤ the Initial specified value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Capacitance change | ≤±20% of initial measured value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor (tanδ) | ≤200% of initial specified value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shelf Life | After storage for 500hrs. at +85°C with no voltage applied. Post test requirements at +20°C Same limits as high temperature loading. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Diagram of Dimensions:



Dimensions : Millimetres

Electrolytic Capacitors

MCLPR Series



Case Size Table and Permissible Ripple Current (Case Size : ØD × L (mm))

Maximum Ripple Current : A (rms)

| W.V. | Cap.(µF) | Case Size | R.C. |
|---------|----------|-----------|---------|
| 10 (13) | 8,200 | 20 × 30 | 2.4 |
| | 8,200 | 22 × 25 | 2.45 |
| | 10,000 | 20 × 30 | 2.7 |
| | 10,000 | 25 × 25 | 2.6 |
| | 12,000 | 20 × 30 | 2.8 |
| | 12,000 | 22 × 25 | 2.7 |
| | 15,000 | 22 × 30 | 3.15 |
| | 15,000 | 30 × 25 | 3 |
| | 22,000 | 22 × 40 | 3.8 |
| | 22,000 | 30 × 30 | 3.45 |
| | 33,000 | 25 × 40 | 5 |
| | 33,000 | 35 × 30 | 4.9 |
| | 47,000 | 25 × 50 | 6 |
| | 47,000 | 30 × 45 | 6.5 |
| | 68,000 | 30 × 50 | 6.65 |
| | 16 (20) | 4,700 | 20 × 30 |
| 4,700 | | 22 × 25 | 1.8 |
| 6,800 | | 20 × 30 | 2.45 |
| 6,800 | | 22 × 25 | 2.4 |
| 8,200 | | 22 × 30 | 3 |
| 8,200 | | 22 × 25 | 2.7 |
| 10,000 | | 22 × 25 | 2.8 |
| 10,000 | | 25 × 25 | 2.85 |
| 12,000 | | 22 × 40 | 3.3 |
| 12,000 | | 25 × 26 | 3.15 |
| 15,000 | | 22 × 35 | 3.5 |
| 15,000 | | 25 × 31 | 3.55 |
| 18,000 | | 22 × 40 | 4.34 |
| 18,000 | | 25 × 36 | 4.2 |
| 22,000 | | 22 × 41 | 4 |
| 22,000 | | 25 × 36 | 4 |
| 27,000 | | 25 × 40 | 6.5 |
| 27,000 | | 30 × 32 | 6 |
| 33,000 | | 25 × 50 | 6.5 |
| 33,000 | | 30 × 45 | 5.4 |
| 39,000 | 30 × 50 | 8.3 | |

| W.V. | Cap.(µF) | Case Size | R.C. |
|---------|----------|-----------|---------|
| 16 (20) | 39,000 | 35 × 36 | 7.5 |
| | 47,000 | 30 × 50 | 7.5 |
| | 47,000 | 35 × 45 | 7 |
| | 56,000 | 35 × 50 | 10.5 |
| | 56,000 | 35 × 46 | 9.5 |
| | 68,000 | 35 × 62 | 10.05 |
| | 25 (32) | 3,300 | 20 × 30 |
| 3,300 | | 22 × 25 | 2.1 |
| 4,700 | | 20 × 30 | 2.5 |
| 4,700 | | 22 × 25 | 2.2 |
| 5,600 | | 22 × 31 | 2.6 |
| 6,800 | | 22 × 30 | 2.85 |
| 6,800 | | 25 × 26 | 2.7 |
| 8,200 | | 22 × 35 | 3 |
| 8,200 | | 25 × 26 | 3 |
| 10,000 | | 30 × 25 | 3.1 |
| 10,000 | | 25 × 31 | 3.15 |
| 12,000 | | 22 × 50 | 3.8 |
| 12,000 | | 25 × 40 | 3.75 |
| 15,000 | | 22 × 50 | 3.8 |
| 15,000 | | 30 × 35 | 3.5 |
| 18,000 | | 25 × 41 | 4.5 |
| 18,000 | | 30 × 41 | 4.5 |
| 22,000 | | 30 × 45 | 4.8 |
| 22,000 | | 35 × 30 | 5.2 |
| 27,000 | | 30 × 41 | 5.8 |
| 27,000 | 35 × 36 | 6.5 | |
| 33,000 | 30 × 51 | 8.95 | |
| 39,000 | 35 × 51 | 9 | |
| 47,000 | 35 × 56 | 9.2 | |
| 35 (44) | 2,200 | 22 × 25 | 2.18 |
| | 3,300 | 20 × 30 | 2.1 |
| | 3,300 | 22 × 25 | 2.05 |
| | 3,900 | 22 × 30 | 2.5 |
| | 4,700 | 22 × 30 | 2.45 |
| | 4,700 | 25 × 26 | 2.4 |



Electrolytic Capacitors

MCLPR Series



Case Size Table and Permissible Ripple Current (Case Size : ØD × L (mm))

Maximum Ripple Current : A (rms)

| W.V. | Cap.(µF) | Case Size | R.C. |
|---------|----------|-----------|------|
| 35 (44) | 6,800 | 22 × 40 | 3 |
| | 6,800 | 26 × 30 | 2.9 |
| | 8,200 | 22 × 41 | 3.45 |
| | 8,200 | 25 × 30 | 3.25 |
| | 10,000 | 22 × 46 | 3.5 |
| | 10,000 | 30 × 30 | 3.5 |
| | 12,000 | 25 × 41 | 3.85 |
| | 12,000 | 35 × 35 | 3.7 |
| | 15,000 | 25 × 50 | 4.5 |
| | 15,000 | 30 × 40 | 4.1 |
| | 18,000 | 30 × 46 | 4.8 |
| | 18,000 | 35 × 37 | 4.6 |
| | 22,000 | 30 × 50 | 5.7 |
| | 22,000 | 35 × 45 | 5 |
| | 27,000 | 35 × 50 | 5.8 |
| 50 (63) | 33,000 | 35 × 51 | 6 |
| | 1,500 | 22 × 26 | 1.4 |
| | 2,200 | 22 × 25 | 1.9 |
| | 2,200 | 25 × 25 | 2 |
| | 2,700 | 22 × 31 | 2.3 |
| | 3,300 | 22 × 31 | 2.5 |
| | 3,300 | 25 × 26 | 2.4 |
| | 4,700 | 22 × 36 | 3 |
| | 4,700 | 30 × 25 | 3 |
| | 5,600 | 22 × 40 | 3 |
| | 5,600 | 25 × 40 | 3 |
| | 6,800 | 22 × 50 | 3 |
| | 6,800 | 25 × 41 | 2.85 |
| | 8,200 | 25 × 46 | 3.6 |
| | 8,200 | 30 × 46 | 4 |
| | 10,000 | 25 × 50 | 3.9 |
| | 10,000 | 35 × 35 | 3.8 |
| | 12,000 | 30 × 45 | 4.4 |
| 12,000 | 35 × 40 | 4.35 | |
| 15,000 | 30 × 51 | 5.3 | |
| 15,000 | 35 × 42 | 4.7 | |

| W.V. | Cap.(µF) | Case Size | R.C. |
|----------|----------|-----------|------|
| 50 (63) | 18,000 | 35 × 55 | 5.6 |
| | 22,000 | 35 × 52 | 5.8 |
| 63 (79) | 1,000 | 22 × 30 | 1.5 |
| | 1,000 | 22 × 25 | 1.45 |
| | 1,500 | 22 × 30 | 1.8 |
| | 1,500 | 22 × 25 | 1.75 |
| | 2,200 | 22 × 30 | 2.1 |
| | 2,200 | 26 × 25 | 2 |
| | 2,700 | 22 × 36 | 2.8 |
| | 2,700 | 25 × 31 | 2.7 |
| | 3,300 | 22 × 40 | 2.81 |
| | 3,300 | 25 × 35 | 2.9 |
| | 3,900 | 22 × 40 | 3.2 |
| | 3,900 | 25 × 40 | 3.2 |
| | 4,700 | 22 × 50 | 3.2 |
| | 4,700 | 26 × 40 | 3.11 |
| | 5,600 | 25 × 46 | 3.8 |
| | 5,600 | 30 × 40 | 3.7 |
| | 6,800 | 25 × 50 | 3.68 |
| | 6,800 | 30 × 40 | 3.54 |
| 8,200 | 30 × 46 | 3.99 | |
| 8,200 | 35 × 37 | 3.81 | |
| 10,000 | 30 × 50 | 4.6 | |
| 12,000 | 35 × 52 | 5.12 | |
| 80 (100) | 680 | 22 × 25 | 1.3 |
| | 1,000 | 22 × 26 | 1.6 |
| | 1,000 | 22 × 30 | 1.35 |
| | 1,500 | 22 × 31 | 1.8 |
| | 1,500 | 25 × 26 | 1.75 |
| | 1,800 | 22 × 36 | 1.8 |
| | 1,800 | 25 × 31 | 1.6 |
| | 2,200 | 22 × 41 | 2.5 |
| | 2,200 | 25 × 31 | 2.3 |
| | 2,700 | 22 × 46 | 2.8 |
| | 2,700 | 25 × 36 | 2.65 |
| | 3,300 | 22 × 50 | 3.3 |



Electrolytic Capacitors

MCLPR Series



Case Size Table and Permissible Ripple Current (Case Size : ØD × L (mm))

Maximum Ripple Current : A (rms)

| W.V. | Cap.(µF) | Case Size | R.C. |
|-----------|----------|-----------|------|
| 80 (100) | 3,300 | 25 × 41 | 3.12 |
| | 3,900 | 25 × 46 | 3.4 |
| | 3,900 | 30 × 36 | 3.1 |
| | 4,700 | 25 × 50 | 3.6 |
| | 4,700 | 30 × 41 | 3.45 |
| | 5,600 | 30 × 46 | 3.8 |
| | 5,600 | 35 × 37 | 3.65 |
| | 6,800 | 30 × 51 | 4.5 |
| | 6,800 | 35 × 42 | 3.84 |
| | 8,200 | 35 × 52 | 4.9 |
| 100 (125) | 470 | 20 × 30 | 1.3 |
| | 470 | 22 × 25 | 1.15 |
| | 680 | 22 × 30 | 1.65 |
| | 820 | 22 × 30 | 1.55 |
| | 820 | 25 × 30 | 1.7 |
| | 1,000 | 22 × 30 | 2.2 |
| | 1,000 | 25 × 25 | 1.71 |
| | 1,200 | 22 × 36 | 2.3 |
| | 1,200 | 25 × 35 | 2.3 |
| | 1,500 | 22 × 40 | 2.54 |
| | 1,500 | 25 × 40 | 2.5 |
| | 1,800 | 22 × 46 | 2.2 |
| | 1,800 | 25 × 41 | 2.05 |
| | 2,200 | 22 × 50 | 3.07 |
| | 2,200 | 26 × 40 | 2.77 |
| | 2,700 | 25 × 46 | 3.15 |
| | 2,700 | 35 × 35 | 3.3 |
| | 3,300 | 25 × 50 | 3.39 |
| | 3,300 | 30 × 41 | 3.27 |
| | 3,900 | 30 × 46 | 3.5 |
| | 3,900 | 35 × 45 | 3.5 |
| | 4,700 | 30 × 50 | 3.7 |
| | 4,700 | 35 × 42 | 3.5 |
| | 5,600 | 35 × 50 | 4.1 |
| 6,800 | 35 × 58 | 5 | |
| 8,200 | 35 × 60 | 5.3 | |

| W.V. | Cap.(µF) | Case Size | R.C. |
|-----------|----------|-----------|------|
| 100 (125) | 10,000 | 35 × 70 | 5.49 |
| | 10,000 | 40 × 64 | 5.6 |
| 160 (200) | 180 | 20 × 30 | 1.2 |
| | 180 | 22 × 25 | 1.05 |
| | 270 | 22 × 26 | 1.3 |
| | 330 | 22 × 30 | 1.14 |
| | 330 | 25 × 25 | 1.11 |
| | 390 | 22 × 31 | 1.71 |
| | 390 | 25 × 26 | 1.58 |
| | 470 | 22 × 31 | 1.53 |
| | 470 | 25 × 26 | 1.45 |
| | 560 | 22 × 35 | 1.67 |
| | 560 | 25 × 31 | 1.58 |
| | 680 | 22 × 40 | 1.95 |
| | 680 | 25 × 36 | 1.87 |
| | 820 | 22 × 50 | 2.36 |
| | 820 | 25 × 36 | 2.05 |
| | 1,000 | 25 × 45 | 2.62 |
| | 1,000 | 30 × 36 | 2.55 |
| | 1,200 | 25 × 50 | 3.4 |
| | 1,200 | 30 × 36 | 3.2 |
| | 1,500 | 30 × 45 | 3.35 |
| 1,500 | 35 × 37 | 3.28 | |
| 1,800 | 30 × 51 | 4.4 | |
| 1,800 | 35 × 42 | 3.59 | |
| 2,200 | 35 × 51 | 4.7 | |
| 2,700 | 35 × 60 | 4.8 | |
| 200 (250) | 150 | 20 × 30 | 2 |
| | 150 | 22 × 25 | 1.85 |
| | 220 | 20 × 30 | 1 |
| | 220 | 22 × 25 | 0.97 |
| | 270 | 22 × 26 | 1.5 |
| | 330 | 22 × 30 | 1.29 |
| | 330 | 25 × 25 | 1.23 |
| | 470 | 22 × 40 | 1.74 |
| | 470 | 25 × 31 | 1.55 |



Electrolytic Capacitors

MCLPR Series



Case Size Table and Permissible Ripple Current (Case Size : ØD × L (mm))

Maximum Ripple Current : A (rms)

| W.V. | Cap.(µF) | Case Size | R.C. |
|-----------|----------|-----------|------|
| 200 (250) | 560 | 22 × 40 | 2 |
| | 560 | 25 × 36 | 1.82 |
| | 680 | 22 × 46 | 2.14 |
| | 680 | 25 × 36 | 2.08 |
| | 820 | 25 × 50 | 2.59 |
| | 820 | 30 × 36 | 2.55 |
| | 1,000 | 25 × 52 | 2.99 |
| | 1,000 | 30 × 42 | 2.87 |
| | 1,200 | 30 × 46 | 4.25 |
| | 1,200 | 35 × 37 | 4.08 |
| | 1,500 | 30 × 51 | 5.3 |
| | 1,500 | 35 × 42 | 5.15 |
| | 1,800 | 35 × 47 | 5.8 |
| | 2,200 | 35 × 51 | 6.5 |
| 250 (300) | 120 | 20 × 30 | 0.9 |
| | 120 | 22 × 25 | 0.75 |
| | 150 | 20 × 30 | 1 |
| | 150 | 22 × 25 | 0.97 |
| | 180 | 25 × 26 | 1.3 |
| | 220 | 22 × 32 | 1.45 |
| | 220 | 25 × 25 | 1.09 |
| | 270 | 22 × 32 | 1.11 |
| | 270 | 25 × 25 | 1.05 |
| | 330 | 22 × 40 | 1.58 |
| | 330 | 25 × 31 | 1.42 |
| | 390 | 22 × 41 | 2 |
| | 390 | 25 × 36 | 1.85 |
| | 470 | 22 × 46 | 2.08 |
| | 470 | 25 × 41 | 1.93 |
| | 560 | 25 × 45 | 2.29 |
| | 560 | 30 × 40 | 2.4 |
| | 680 | 25 × 50 | 2.68 |
| | 680 | 30 × 40 | 2.46 |
| | 820 | 30 × 45 | 3.11 |
| 820 | 35 × 45 | 3.1 | |
| 1,000 | 30 × 50 | 3.6 | |

| W.V. | Cap.(µF) | Case Size | R.C. |
|-----------|----------|-----------|------|
| 250 (300) | 1,000 | 35 × 45 | 3.4 |
| | 1,200 | 35 × 46 | 4 |
| | 1,500 | 35 × 62 | 5 |
| 315 (365) | 100 | 22 × 30 | 0.63 |
| | 100 | 25 × 25 | 0.58 |
| | 220 | 22 × 50 | 1.38 |
| | 220 | 30 × 30 | 1.25 |
| | 330 | 25 × 50 | 2.08 |
| | 330 | 35 × 30 | 1.85 |
| | 470 | 30 × 50 | 2.96 |
| 350 (400) | 68 | 22 × 25 | 0.53 |
| | 82 | 22 × 25 | 0.59 |
| | 100 | 22 × 30 | 0.66 |
| | 100 | 25 × 25 | 0.63 |
| | 120 | 22 × 31 | 0.7 |
| | 120 | 25 × 26 | 0.68 |
| | 150 | 22 × 35 | 0.86 |
| | 150 | 25 × 31 | 0.82 |
| | 180 | 22 × 41 | 0.9 |
| | 180 | 25 × 36 | 0.85 |
| | 220 | 22 × 45 | 1.17 |
| | 220 | 25 × 41 | 1.06 |
| | 270 | 25 × 46 | 1.6 |
| | 270 | 30 × 36 | 1.4 |
| | 330 | 25 × 50 | 1.6 |
| | 330 | 30 × 41 | 1.53 |
| | 390 | 25 × 50 | 2 |
| | 390 | 30 × 46 | 1.85 |
| | 470 | 30 × 50 | 2.01 |
| 470 | 35 × 40 | 1.92 | |
| 560 | 35 × 45 | 2.31 | |
| 680 | 35 × 52 | 2.9 | |
| 400 (450) | 47 | 22 × 25 | 0.38 |
| | 47 | 35 × 30 | 0.28 |
| | 68 | 22 × 25 | 0.51 |
| | 82 | 22 × 25 | 0.6 |



Electrolytic Capacitors

MCLPR Series



Case Size Table and Permissible Ripple Current (Case Size : ØD × L (mm))

Maximum Ripple Current : A (rms)

| W.V. | Cap.(µF) | Case Size | R.C. |
|-----------|----------|-----------|------|
| 400 (450) | 100 | 22 × 30 | 0.68 |
| | 100 | 25 × 25 | 0.65 |
| | 120 | 22 × 31 | 0.9 |
| | 120 | 25 × 30 | 0.9 |
| | 150 | 22 × 41 | 0.95 |
| | 150 | 25 × 31 | 0.85 |
| | 220 | 22 × 50 | 1.27 |
| | 220 | 26 × 40 | 1.17 |
| | 270 | 25 × 46 | 1.65 |
| | 270 | 30 × 36 | 1.59 |
| | 330 | 30 × 41 | 1.9 |
| | 330 | 35 × 37 | 1.75 |

| W.V. | Cap.(µF) | Case Size | R.C. |
|-----------|----------|-----------|------|
| 400 (450) | 390 | 30 × 45 | 2.3 |
| | 470 | 35 × 40 | 2.4 |
| | 560 | 35 × 52 | 2.79 |
| 450 (500) | 47 | 22 × 26 | 0.36 |
| | 100 | 22 × 36 | 0.61 |
| | 100 | 25 × 31 | 0.35 |
| | 150 | 22 × 50 | 0.88 |
| | 150 | 25 × 40 | 0.59 |
| | 220 | 25 × 50 | 1.06 |
| | 220 | 35 × 37 | 0.97 |
| | 330 | 35 × 47 | 1.13 |

Part Number Table

| Description | Part Number |
|--------------------------|-------------------|
| Capacitor, 4,700µF, 16V | MCLPR16V478M22X25 |
| Capacitor, 6,800µF, 16V | MCLPR16V688M22X25 |
| Capacitor, 8,200µF, 16V | MCLPR16V828M22X30 |
| Capacitor, 10,000µF, 16V | MCLPR16V109M22X25 |
| Capacitor, 12,000µF, 16V | MCLPR16V129M22X40 |
| Capacitor, 15,000µF, 16V | MCLPR16V159M22X35 |
| Capacitor, 18,000µF, 16V | MCLPR16V189M25X36 |
| Capacitor, 22,000µF, 16V | MCLPR16V229M22X41 |
| Capacitor, 27,000µF, 16V | MCLPR16V279M30X32 |
| Capacitor, 33,000µF, 16V | MCLPR16V339M30X45 |
| Capacitor, 39,000µF, 16V | MCLPR16V399M30X50 |
| Capacitor, 47,000µF, 16V | MCLPR16V479M35X45 |
| Capacitor, 56,000µF, 16V | MCLPR16V569M35X50 |
| Capacitor, 68,000µF, 16V | MCLPR16V689M35X62 |
| Capacitor, 3,300µF, 25V | MCLPR25V338M22X25 |
| Capacitor, 4,700µF, 25V | MCLPR25V478M22X25 |
| Capacitor, 5,600µF, 25V | MCLPR25V568M22X31 |
| Capacitor, 6,800µF, 25V | MCLPR25V688M22X30 |
| Capacitor, 8,200µF, 25V | MCLPR25V828M22X35 |
| Capacitor, 10,000µF, 25V | MCLPR25V109M30X25 |

| Description | Part Number |
|--------------------------|-------------------|
| Capacitor, 12,000µF, 25V | MCLPR25V129M22X50 |
| Capacitor, 15,000µF, 25V | MCLPR25V159M30X35 |
| Capacitor, 18,000µF, 25V | MCLPR25V189M25X41 |
| Capacitor, 22,000µF, 25V | MCLPR25V229M30X45 |
| Capacitor, 27,000µF, 25V | MCLPR25V279M30X41 |
| Capacitor, 33,000µF, 25V | MCLPR25V339M30X51 |
| Capacitor, 39,000µF, 25V | MCLPR25V399M35X51 |
| Capacitor, 47,000µF, 25V | MCLPR25V479M35X56 |
| Capacitor, 2,200µF, 35V | MCLPR35V228M22X25 |
| Capacitor, 3,900µF, 35V | MCLPR35V398M22X30 |
| Capacitor, 4,700µF, 35V | MCLPR35V478M22X30 |
| Capacitor, 6,800µF, 35V | MCLPR35V688M26X30 |
| Capacitor, 8,200µF, 35V | MCLPR35V828M22X41 |
| Capacitor, 10,000µF, 35V | MCLPR35V109M30X30 |
| Capacitor, 12,000µF, 35V | MCLPR35V129M25X41 |
| Capacitor, 15,000µF, 35V | MCLPR35V159M30X40 |
| Capacitor, 18,000µF, 35V | MCLPR35V189M30X46 |
| Capacitor, 22,000µF, 35V | MCLPR35V229M35X45 |
| Capacitor, 27,000µF, 35V | MCLPR35V279M35X50 |
| Capacitor, 33,000µF, 35V | MCLPR35V339M35X51 |



Electrolytic Capacitors

MCLPR Series



| Description | Part Number |
|--------------------------|--------------------|
| Capacitor, 1,500µF, 50V | MCLPR50V158M22X26 |
| Capacitor, 2,200µF, 50V | MCLPR50V228M22X25 |
| Capacitor, 2,700µF, 50V | MCLPR50V278M22X31 |
| Capacitor, 3,300µF, 50V | MCLPR50V338M22X31 |
| Capacitor, 4,700µF, 50V | MCLPR50V478M30X25 |
| Capacitor, 5,600µF, 50V | MCLPR50V568M25X40 |
| Capacitor, 6,800µF, 50V | MCLPR50V688M25X41 |
| Capacitor, 8,200µF, 50V | MCLPR50V828M30X46 |
| Capacitor, 10,000µF, 50V | MCLPR50V109M35X35 |
| Capacitor, 12,000µF, 50V | MCLPR50V129M30X45 |
| Capacitor, 15,000µF, 50V | MCLPR50V159M30X51 |
| Capacitor, 18,000µF, 50V | MCLPR50V189M35X55 |
| Capacitor, 22,000µF, 50V | MCLPR50V229M35X52 |
| Capacitor, 1,000µF, 63V | MCLPR63V108M22X25 |
| Capacitor, 1,500µF, 63V | MCLPR63V158M22X30 |
| Capacitor, 2,200µF, 63V | MCLPR63V228M26X25 |
| Capacitor, 2,700µF, 63V | MCLPR63V278M25X31 |
| Capacitor, 3,300µF, 63V | MCLPR63V338M25X35 |
| Capacitor, 3,900µF, 63V | MCLPR63V398M25X40 |
| Capacitor, 4,700µF, 63V | MCLPR63V478M26X40 |
| Capacitor, 5,600µF, 63V | MCLPR63V568M30X40 |
| Capacitor, 6,800µF, 63V | MCLPR63V688M30X40 |
| Capacitor, 8,200µF, 63V | MCLPR63V828M30X46 |
| Capacitor, 10,000µF, 63V | MCLPR63V109M30X50 |
| Capacitor, 470µF, 100V | MCLPR100V477M22X25 |
| Capacitor, 680µF, 100V | MCLPR100V687M22X30 |
| Capacitor, 820µF, 100V | MCLPR100V827M25X30 |
| Capacitor, 1,000µF, 100V | MCLPR100V108M22X30 |
| Capacitor, 1,200µF, 100V | MCLPR100V128M25X35 |
| Capacitor, 1,500µF, 100V | MCLPR100V158M25X40 |
| Capacitor, 1,800µF, 100V | MCLPR100V188M25X41 |
| Capacitor, 2,200µF, 100V | MCLPR100V228M26X40 |
| Capacitor, 2,700µF, 100V | MCLPR100V278M35X35 |

| Description | Part Number |
|---------------------------|--------------------|
| Capacitor, 3,300µF, 100V | MCLPR100V338M30X41 |
| Capacitor, 3,900µF, 100V | MCLPR100V398M35X45 |
| Capacitor, 4,700µF, 100V | MCLPR100V478M30X50 |
| Capacitor, 5,600µF, 100V | MCLPR100V568M35X50 |
| Capacitor, 6,800µF, 100V | MCLPR100V688M35X58 |
| Capacitor, 8,200µF, 100V | MCLPR100V828M35X60 |
| Capacitor, 10,000µF, 100V | MCLPR100V109M40X64 |
| Capacitor, 120µF, 250V | MCLPR250V127M22X25 |
| Capacitor, 150µF, 250V | MCLPR250V157M22X25 |
| Capacitor, 220µF, 250V | MCLPR250V227M22X32 |
| Capacitor, 270µF, 250V | MCLPR250V277M22X32 |
| Capacitor, 330µF, 250V | MCLPR250V337M22X40 |
| Capacitor, 390µF, 250V | MCLPR250V397M22X41 |
| Capacitor, 470µF, 250V | MCLPR250V477M25X41 |
| Capacitor, 560µF, 250V | MCLPR250V567M30X40 |
| Capacitor, 680µF, 250V | MCLPR250V687M30X40 |
| Capacitor, 820µF, 250V | MCLPR250V827M35X45 |
| Capacitor, 1,000µF, 250V | MCLPR250V108M35X45 |
| Capacitor, 1,200µF, 250V | MCLPR250V128M35X46 |
| Capacitor, 1,500µF, 250V | MCLPR250V158M35X62 |
| Capacitor, 47µF, 400V | MCLPR400V476M22X25 |
| Capacitor, 68µF, 400V | MCLPR400V686M22X25 |
| Capacitor, 82µF, 400V | MCLPR400V826M22X25 |
| Capacitor, 100µF, 400V | MCLPR400V107M22X30 |
| Capacitor, 120µF, 400V | MCLPR400V127M25X30 |
| Capacitor, 150µF, 400V | MCLPR400V157M25X31 |
| Capacitor, 220µF, 400V | MCLPR400V227M26X40 |
| Capacitor, 270µF, 400V | MCLPR400V277M25X46 |
| Capacitor, 330µF, 400V | MCLPR400V337M30X41 |
| Capacitor, 390µF, 400V | MCLPR400V397M30X45 |
| Capacitor, 470µF, 400V | MCLPR400V477M35X40 |
| Capacitor, 560µF, 400V | MCLPR400V567M35X52 |

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