

MYLAR/POLYESTER FILM

MLR SERIES

The MLR series is a range of radial lead, non-inductive, non-polarized polyester film (Mylar) capacitors dipped in a hard epoxy coating material to provide excellent protection against moisture. These devices are intended for general purpose DC applications.

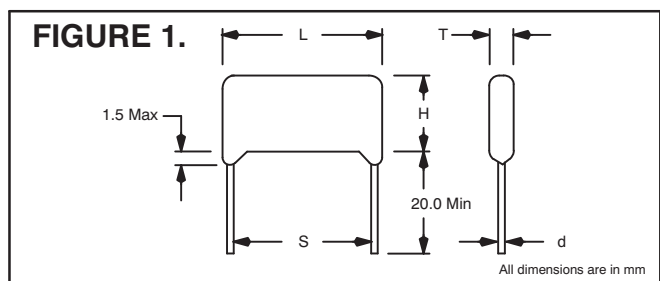
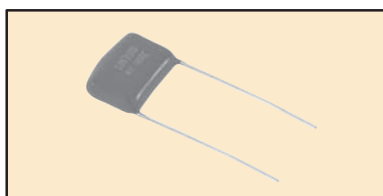
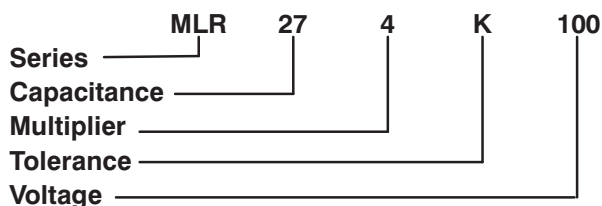
RATINGS

- Capacitance Range:** .001 μ f to 5.6 μ f
- Voltage Range:** 50V to 630V DC (35V to 250V AC)
- Tolerance:** $\pm 10\%$
- Withstand Voltage:** 175%

PERFORMANCE SPECIFICATIONS

- Operating Temperature Range:**
-55°C to +85°C (-67°F to +185°F)
- Dissipation Factor:** 1% Max
- Capacitance Tolerance (K):** $\pm 10\%$
measured @ +25°C (+77°F), 1kHz, for values up to and including 1 μ f
measured @ +25°C (+77°F), 120Hz, for values above 1 μ f
- Insulation Resistance:**
50V & 100V, .001 μ f - .1 μ f = 30,000M Ω Min
.12 μ f - 2.2 μ f = 10,000M Ω Min
250V, .01 μ f - 5.6 μ f = 10,000M Ω Min
400V, .0047 μ f - 4.0 μ f = 10,000M Ω Min
630V, .001 μ f - .008 μ f = 100,000M Ω Min
.01 μ f - 3.0 μ f = 10,000M Ω Min
- Life Test:** 1000Hrs @ +85°C (+185°F)
at 150% rated voltage

ORDERING INFORMATION



MECHANICAL SPECIFICATIONS (Figure 1) 50 Volt (35VAC) Series Dimensions (mm)

| Cap μ f | Code | T | H | L | S | d |
|-------------|------|-----|------|------|----------------|-----|
| .001 | 102 | 3.0 | 7.5 | 5.5 | 3.5 ± 1.0 | 0.5 |
| .0033 | 332 | 3.0 | 7.5 | 5.5 | 3.5 ± 1.0 | 0.5 |
| .01 | 103 | 3.0 | 7.5 | 6.0 | 3.5 ± 1.0 | 0.5 |
| .012 | 123 | 3.0 | 9.0 | 6.0 | 3.5 ± 1.0 | 0.5 |
| .018 | 183 | 3.5 | 9.0 | 6.5 | 3.5 ± 1.0 | 0.5 |
| .027 | 273 | 4.0 | 9.5 | 6.5 | 3.5 ± 1.0 | 0.5 |
| .033 | 333 | 4.0 | 9.5 | 6.5 | 3.5 ± 1.0 | 0.5 |
| .039 | 393 | 4.5 | 9.5 | 7.5 | 5.0 ± 1.5 | 0.5 |
| .047 | 473 | 4.5 | 9.5 | 7.5 | 5.0 ± 1.5 | 0.5 |
| .1 | 104 | 5.5 | 10.5 | 9.0 | 5.0 ± 1.5 | 0.5 |
| .15 | 154 | 6.0 | 10.0 | 14.0 | 10.0 ± 1.5 | 0.6 |
| .27 | 274 | 6.0 | 11.0 | 14.0 | 10.0 ± 1.5 | 0.6 |
| .33 | 334 | 6.0 | 12.0 | 14.0 | 10.0 ± 1.5 | 0.6 |
| 1.0 | 105 | 9.0 | 15.0 | 18.0 | 15.0 ± 1.5 | 0.6 |

100 Volt (65VAC) Series Dimensions (mm)

| Cap μ f | Code | T | H | L | S | d |
|-------------|------|------|------|------|----------------|-----|
| .001 | 102 | 3.0 | 7.5 | 5.5 | 3.5 ± 1.0 | 0.5 |
| .0012 | 122 | 3.0 | 7.5 | 5.5 | 3.5 ± 1.0 | 0.5 |
| .0015 | 152 | 3.0 | 7.5 | 5.5 | 3.5 ± 1.0 | 0.5 |
| .0018 | 182 | 3.0 | 7.5 | 5.5 | 3.5 ± 1.0 | 0.5 |
| .002 | 202 | 3.0 | 7.5 | 5.5 | 3.5 ± 1.0 | 0.5 |
| .0022 | 222 | 3.0 | 7.5 | 5.5 | 3.5 ± 1.0 | 0.5 |
| .0027 | 272 | 3.0 | 7.5 | 5.5 | 3.5 ± 1.0 | 0.5 |
| .0033 | 332 | 3.0 | 7.5 | 5.5 | 3.5 ± 1.0 | 0.5 |
| .0039 | 392 | 3.0 | 7.5 | 5.5 | 3.5 ± 1.0 | 0.5 |
| .0047 | 472 | 3.0 | 7.5 | 5.5 | 3.5 ± 1.0 | 0.5 |
| .0056 | 562 | 3.0 | 7.5 | 5.5 | 3.5 ± 1.0 | 0.5 |
| .0068 | 682 | 3.0 | 7.5 | 5.5 | 3.5 ± 1.0 | 0.5 |
| .0082 | 822 | 3.0 | 7.5 | 6.0 | 3.5 ± 1.0 | 0.5 |
| .01 | 103 | 3.0 | 7.5 | 6.0 | 3.5 ± 1.0 | 0.5 |
| .012 | 123 | 3.0 | 9.0 | 6.0 | 3.5 ± 1.0 | 0.5 |
| .015 | 153 | 3.0 | 9.0 | 6.0 | 3.5 ± 1.0 | 0.5 |
| .018 | 183 | 3.5 | 9.0 | 6.5 | 3.5 ± 1.0 | 0.5 |
| .022 | 223 | 3.5 | 9.0 | 6.5 | 3.5 ± 1.0 | 0.5 |
| .027 | 273 | 4.0 | 9.5 | 6.5 | 3.5 ± 1.0 | 0.5 |
| .033 | 333 | 4.0 | 9.5 | 6.5 | 3.5 ± 1.0 | 0.5 |
| .039 | 393 | 4.5 | 9.5 | 7.5 | 5.0 ± 1.5 | 0.5 |
| .047 | 473 | 4.5 | 9.5 | 7.5 | 5.0 ± 1.5 | 0.5 |
| .056 | 563 | 4.5 | 10.5 | 8.0 | 5.0 ± 1.5 | 0.5 |
| .068 | 683 | 4.5 | 10.5 | 8.0 | 5.0 ± 1.5 | 0.5 |
| .082 | 823 | 5.5 | 10.5 | 9.0 | 5.0 ± 1.5 | 0.5 |
| .1 | 104 | 5.5 | 10.5 | 9.0 | 5.0 ± 1.5 | 0.5 |
| .12 | 124 | 6.0 | 12.0 | 14.0 | 10.0 ± 1.5 | 0.6 |
| .15 | 154 | 6.0 | 10.0 | 14.0 | 10.0 ± 1.5 | 0.6 |
| .18 | 184 | 6.0 | 10.0 | 14.0 | 10.0 ± 1.5 | 0.6 |
| .22 | 224 | 6.0 | 10.0 | 14.0 | 10.0 ± 1.5 | 0.6 |
| .27 | 274 | 6.0 | 11.0 | 14.0 | 10.0 ± 1.5 | 0.6 |
| .33 | 334 | 6.0 | 12.0 | 14.0 | 10.0 ± 1.5 | 0.6 |
| .39 | 394 | 6.0 | 12.0 | 18.0 | 15.0 ± 1.5 | 0.6 |
| .47 | 474 | 6.0 | 12.0 | 18.0 | 15.0 ± 1.5 | 0.6 |
| .56 | 564 | 7.0 | 14.0 | 18.0 | 15.0 ± 1.5 | 0.6 |
| .68 | 684 | 7.0 | 14.0 | 18.0 | 15.0 ± 1.5 | 0.6 |
| .82 | 824 | 9.0 | 15.0 | 18.0 | 15.0 ± 1.5 | 0.6 |
| 1.0 | 105 | 9.0 | 15.0 | 18.0 | 15.0 ± 1.5 | 0.6 |
| 2.2 | 225 | 11.0 | 20.0 | 24.0 | 20.0 ± 1.5 | 0.8 |

MYLAR/POLYESTER FILM

MLR SERIES

250 Volt (125VAC) Series Dimensions (mm)

| Cap μ f | Code | T | H | L | S | d |
|-------------|------|------|------|------|----------------|-----|
| .01 | 103 | 6.0 | 10.0 | 14.0 | 10 \pm 1.5 | 0.6 |
| .015 | 153 | 6.0 | 10.0 | 14.0 | 10 \pm 1.5 | 0.6 |
| .022 | 223 | 6.0 | 10.0 | 14.0 | 10 \pm 1.5 | 0.6 |
| .027 | 273 | 6.0 | 10.0 | 14.0 | 10 \pm 1.5 | 0.6 |
| .033 | 333 | 6.0 | 10.0 | 14.0 | 10 \pm 1.5 | 0.6 |
| .047 | 473 | 6.0 | 10.0 | 14.0 | 10 \pm 1.5 | 0.6 |
| .068 | 683 | 6.0 | 10.0 | 14.0 | 10 \pm 1.5 | 0.6 |
| .082 | 823 | 7.0 | 10.0 | 14.0 | 10 \pm 1.5 | 0.6 |
| .1 | 104 | 7.0 | 10.0 | 14.0 | 10 \pm 1.5 | 0.6 |
| .12 | 124 | 7.0 | 11.0 | 14.0 | 10 \pm 1.5 | 0.6 |
| .15 | 154 | 7.0 | 11.0 | 18.0 | 15 \pm 1.5 | 0.6 |
| .18 | 184 | 7.0 | 12.0 | 18.0 | 15 \pm 1.5 | 0.6 |
| .22 | 224 | 7.0 | 12.0 | 18.0 | 15 \pm 1.5 | 0.6 |
| .27 | 274 | 7.0 | 13.0 | 18.0 | 15 \pm 1.5 | 0.6 |
| .33 | 334 | 7.0 | 13.0 | 18.0 | 15 \pm 1.5 | 0.6 |
| .39 | 394 | 8.0 | 15.0 | 18.0 | 15 \pm 1.5 | 0.8 |
| .47 | 474 | 8.0 | 15.0 | 24.0 | 20 \pm 1.5 | 0.8 |
| .56 | 564 | 9.0 | 15.5 | 24.0 | 20 \pm 1.5 | 0.8 |
| .68 | 684 | 9.0 | 15.5 | 24.0 | 20 \pm 1.5 | 0.8 |
| .82 | 824 | 10.0 | 17.0 | 24.0 | 20 \pm 1.5 | 0.8 |
| 1.0 | 105 | 10.0 | 17.0 | 24.0 | 20 \pm 1.5 | 0.8 |
| 1.2 | 125 | 10.0 | 19.5 | 24.0 | 20 \pm 1.5 | 0.8 |
| 1.5 | 155 | 10.0 | 19.5 | 31.0 | 27.5 \pm 1.5 | 0.8 |
| 1.8 | 185 | 11.0 | 20.0 | 31.0 | 27.5 \pm 1.5 | 0.8 |
| 2.2 | 225 | 13.0 | 22.0 | 31.0 | 27.5 \pm 1.5 | 0.8 |
| 3.3 | 335 | 16.0 | 26.0 | 31.0 | 27.5 \pm 1.5 | 0.8 |
| 4.7 | 475 | 16.0 | 26.0 | 35.0 | 27.5 \pm 1.5 | 0.8 |
| 5.6 | 565 | 16.0 | 26.0 | 35.0 | 27.5 \pm 1.5 | 0.8 |

630 Volt (250VAC) Series Dimensions (mm)

| Cap μ f | Code | T | H | L | S | d |
|-------------|------|-------|-------|-------|-----------------|-----|
| .001 | 102 | 5.54 | 8.28 | 17.63 | 13.84 \pm 1.3 | 0.6 |
| .0012 | 122 | 5.87 | 8.62 | 17.63 | 13.84 \pm 1.3 | 0.6 |
| .0015 | 152 | 5.61 | 8.36 | 17.63 | 13.84 \pm 1.3 | 0.6 |
| .0018 | 182 | 5.95 | 8.69 | 17.63 | 13.84 \pm 1.3 | 0.6 |
| .0022 | 222 | 6.38 | 9.12 | 17.63 | 13.84 \pm 1.3 | 0.6 |
| .0025 | 252 | 7.12 | 9.61 | 17.63 | 13.84 \pm 1.3 | 0.8 |
| .0027 | 272 | 7.12 | 9.61 | 17.63 | 13.84 \pm 1.3 | 0.8 |
| .003 | 302 | 6.38 | 9.55 | 17.63 | 13.84 \pm 1.3 | 0.8 |
| .0033 | 332 | 6.38 | 9.55 | 17.63 | 13.84 \pm 1.3 | 0.8 |
| .0039 | 392 | 6.76 | 9.94 | 17.63 | 13.84 \pm 1.3 | 0.8 |
| .0047 | 472 | 7.20 | 10.39 | 17.63 | 13.84 \pm 1.3 | 0.8 |
| .005 | 502 | 7.68 | 10.85 | 17.63 | 13.84 \pm 1.3 | 0.8 |
| .0056 | 562 | 7.68 | 10.85 | 17.63 | 13.84 \pm 1.3 | 0.8 |
| .0068 | 682 | 7.95 | 11.79 | 17.63 | 13.84 \pm 1.3 | 0.8 |
| .0080 | 802 | 8.53 | 12.37 | 17.63 | 13.84 \pm 1.3 | 0.8 |
| .01 | 103 | 6.00 | 10.00 | 14.00 | 10.00 \pm 1.5 | 0.6 |
| .012 | 123 | 6.00 | 11.00 | 14.00 | 10.00 \pm 1.5 | 0.6 |
| .015 | 153 | 6.50 | 11.50 | 14.00 | 10.00 \pm 1.5 | 0.6 |
| .018 | 183 | 7.00 | 12.00 | 14.00 | 10.00 \pm 1.5 | 0.6 |
| .022 | 223 | 7.00 | 12.50 | 14.00 | 10.00 \pm 1.5 | 0.6 |
| .027 | 273 | 6.00 | 11.00 | 18.00 | 15.00 \pm 1.5 | 0.6 |
| .033 | 333 | 7.00 | 12.00 | 18.00 | 15.00 \pm 1.5 | 0.6 |
| .039 | 393 | 7.00 | 12.50 | 18.00 | 15.00 \pm 1.5 | 0.6 |
| .047 | 473 | 7.50 | 12.50 | 18.00 | 15.00 \pm 1.5 | 0.6 |
| .05 | 503 | 7.50 | 12.50 | 18.00 | 15.00 \pm 1.5 | 0.6 |
| .056 | 563 | 8.50 | 14.50 | 18.00 | 15.00 \pm 1.5 | 0.6 |
| .068 | 683 | 8.50 | 14.50 | 18.00 | 15.00 \pm 1.5 | 0.6 |
| .082 | 823 | 9.00 | 15.50 | 18.00 | 15.00 \pm 1.5 | 0.8 |
| .1 | 104 | 9.00 | 14.00 | 24.00 | 20.00 \pm 1.5 | 0.8 |
| .12 | 124 | 10.00 | 17.00 | 24.00 | 20.00 \pm 1.5 | 0.8 |
| .15 | 154 | 10.00 | 17.00 | 24.00 | 20.00 \pm 1.5 | 0.8 |
| .18 | 184 | 11.00 | 20.00 | 24.00 | 20.00 \pm 1.5 | 0.8 |
| .22 | 224 | 11.00 | 20.00 | 24.00 | 20.00 \pm 1.5 | 0.8 |
| .25 | 254 | 11.00 | 20.00 | 24.00 | 20.00 \pm 1.5 | 0.8 |
| .27 | 274 | 12.00 | 20.00 | 24.00 | 20.00 \pm 1.5 | 0.8 |
| .33 | 334 | 11.00 | 20.00 | 24.00 | 27.50 \pm 1.5 | 0.8 |
| .39 | 394 | 13.00 | 22.00 | 30.00 | 27.50 \pm 1.5 | 0.8 |
| .47 | 474 | 13.00 | 22.00 | 30.00 | 27.50 \pm 1.5 | 0.8 |
| .5 | 504 | 13.00 | 22.00 | 30.00 | 27.50 \pm 1.5 | 0.8 |
| .56 | 564 | 14.00 | 23.00 | 31.00 | 27.50 \pm 1.5 | 0.8 |
| .68 | 684 | 15.00 | 26.00 | 31.00 | 27.50 \pm 1.5 | 0.8 |
| 1.0 | 105 | 17.00 | 30.00 | 31.00 | 27.50 \pm 1.5 | 0.8 |
| 1.5 | 155 | 20.00 | 30.00 | 37.00 | 31.00 \pm 1.5 | 0.8 |
| 1.8 | 185 | 19.00 | 28.00 | 46.00 | 41.00 \pm 1.5 | 0.8 |
| 2.0 | 205 | 20.50 | 30.00 | 46.00 | 41.00 \pm 1.5 | 0.8 |
| 3.0 | 305 | 21.00 | 35.00 | 45.00 | 38.00 \pm 1.5 | 0.8 |

400 Volt (200VAC) Series Dimensions (mm)

| Cap μ f | Code | T | H | L | S | d |
|-------------|------|------|------|------|----------------|-----|
| .0047 | 472 | 6.0 | 10.0 | 14.0 | 10 \pm 1.5 | 0.6 |
| .01 | 103 | 6.0 | 10.0 | 14.0 | 10 \pm 1.5 | 0.6 |
| .015 | 153 | 6.0 | 10.0 | 14.0 | 10 \pm 1.5 | 0.6 |
| .022 | 223 | 6.0 | 10.0 | 14.0 | 10 \pm 1.5 | 0.6 |
| .033 | 333 | 6.0 | 10.0 | 14.0 | 10 \pm 1.5 | 0.6 |
| .047 | 473 | 8.0 | 11.0 | 14.0 | 10 \pm 1.5 | 0.6 |
| .056 | 563 | 8.0 | 13.0 | 14.0 | 10 \pm 1.5 | 0.6 |
| .068 | 683 | 6.0 | 13.0 | 18.0 | 15 \pm 1.5 | 0.6 |
| .082 | 823 | 6.0 | 13.0 | 18.0 | 15 \pm 1.5 | 0.6 |
| .1 | 104 | 6.0 | 13.0 | 18.0 | 15 \pm 1.5 | 0.6 |
| .12 | 124 | 7.0 | 14.0 | 18.0 | 15 \pm 1.5 | 0.6 |
| .15 | 154 | 7.0 | 14.0 | 18.0 | 15 \pm 1.5 | 0.6 |
| .18 | 184 | 8.0 | 16.0 | 18.0 | 15 \pm 1.5 | 0.8 |
| .22 | 224 | 8.0 | 16.0 | 24.0 | 20 \pm 1.5 | 0.8 |
| .27 | 274 | 9.0 | 16.0 | 24.0 | 20 \pm 1.5 | 0.8 |
| .33 | 334 | 9.0 | 16.0 | 24.0 | 20 \pm 1.5 | 0.8 |
| .39 | 394 | 9.5 | 17.0 | 24.0 | 20 \pm 1.5 | 0.8 |
| .47 | 474 | 10.0 | 18.0 | 24.0 | 20 \pm 1.5 | 0.8 |
| .68 | 684 | 10.5 | 18.0 | 30.0 | 27.5 \pm 1.5 | 0.8 |
| .82 | 824 | 12.0 | 22.0 | 30.0 | 27.5 \pm 1.5 | 0.8 |
| 1.0 | 105 | 12.0 | 22.0 | 30.0 | 27.5 \pm 1.5 | 0.8 |
| 1.5 | 155 | 15.0 | 24.5 | 30.0 | 26.5 \pm 1.5 | 0.8 |
| 2.0 | 205 | 18.0 | 26.5 | 30.0 | 26.5 \pm 1.5 | 0.8 |
| 3.0 | 305 | 19.0 | 28.5 | 37.0 | 31 \pm 1.5 | 0.8 |
| 4.0 | 405 | 23.5 | 32.0 | 37.0 | 31 \pm 1.5 | 0.8 |

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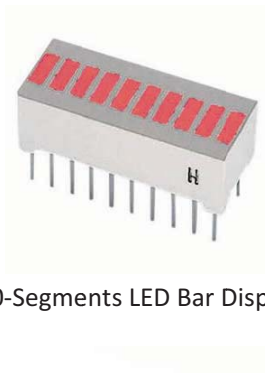


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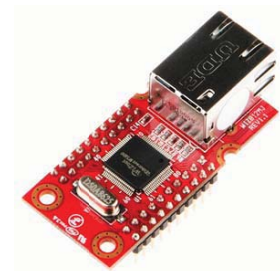
Welcome to Handsontec Store



LCD+Keyboard Shield



10-Segments LED Bar Display



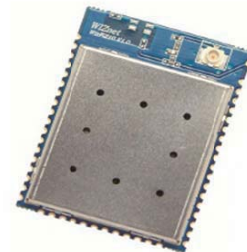
Ethernet Module



Arduino Uno



MicroSD Breakout Board



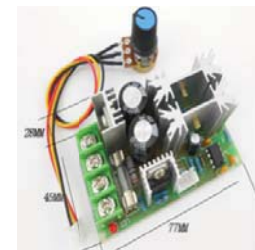
WiFi Module



20x4 LCD Display Module



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PWM Motor Speed Controller



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