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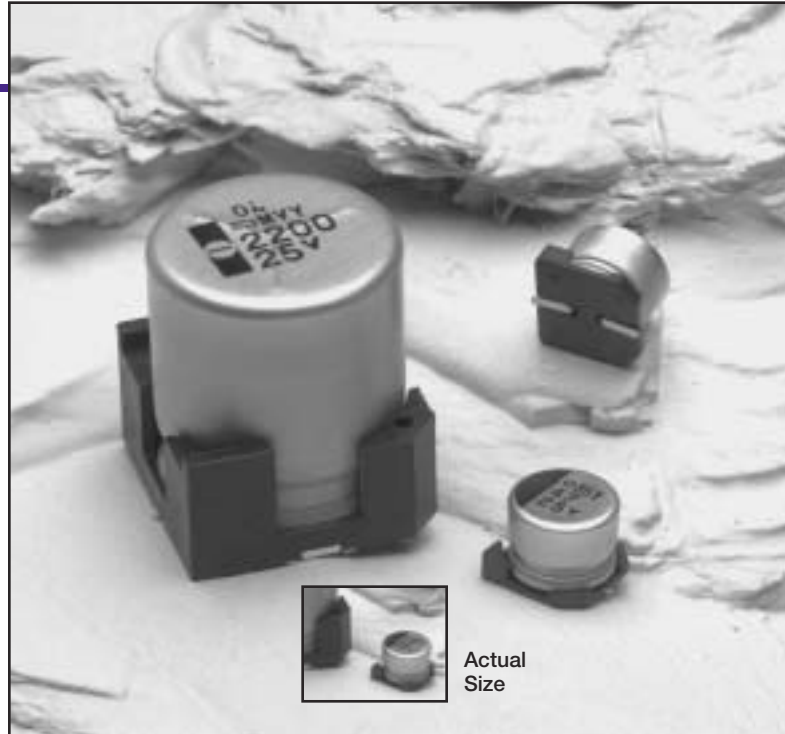
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- Surface Mount
- Low Impedance
- Vertical Chip
- Solvent Proof (6.3-63V)
- +105°C Maximum Temperature



The MVY series capacitors are low impedance vertical chip capacitors designed for reflow soldering. The voltage and capacitance values of this series have been extended allowing use in a wider variety of applications. The MVY series has lower impedance and an extended range of case sizes compared to the MVK series and is specifically designed to replace larger radial, low impedance capacitors. These MVY capacitors make it possible to design all surface mount PC boards, thereby reducing the production process by eliminating the use of both surface mount and radial capacitors.

The MVY series capacitors *except for those rated at 80 and 100 volts* are solvent proof. Refer to the Mini-Glossary for cleaning guidelines and recommended cleaning agents that are compatible with United Chemi-Con products.

Summary of Specifications

- Surface mount lead terminals.
- Capacitance range: 1.0 to 8,200 μ F.
- Voltage range: 6.3 to 100VDC.
- Category temperature range: -55°C to +105°C for 6.3 to 63V; -40°C to +105°C for 80 to 100V.
- Leakage current: 0.01CV or 3 μ A, whichever is greater, after 2 minutes at +20°C.
- Standard capacitance tolerance: \pm 20%
- Nominal case size (D \times L): 4 \times 5.2mm to 18 \times 21.5mm.
- Rated lifetime: 1,000 to 5,000 hours at +105°C depending on case size.

MVY Specifications

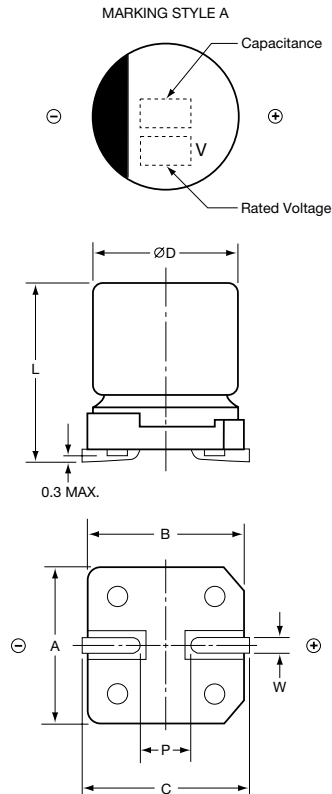
| Item | Characteristics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|---|-----------|-----------|-----------|-------------|-------------|-------------|---|---|-----------------------|-----------|------|------|------|------|------|---|---|---|----------------|------|------|------|------|------|------|---|---|---|----------------|------|------|------|------|------|------|------|------|------|
| Category Temperature Range | - 55 to +105°C for 6.3 to 63V; - 40 to +105°C for 80 to 100V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Voltage Range | 6.3 to 100VDC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Range | 1.0 to 8,200 μ F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Tolerance | \pm 20% (M) at +20°C, 120Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current | I = 0.01CV or 3 μ A, whichever is greater, after 2 minutes at +20°C. Where I = Max. leakage current (μ A), C = Nominal capacitance (μ F) and V = Rated voltage (V) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor (Tan δ) | At +20°C, 120Hz <table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>Case D55 - F80</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.12</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Case H10 & J10</td> <td>0.28</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Case K14 - M22</td> <td>0.26</td> <td>0.22</td> <td>0.18</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.14</td> <td>0.10</td> <td>0.10</td> </tr> </tbody> </table> When nominal capacitance exceeds 1,000 μ F, add 0.02 to the values above for each 1,000 μ F increase. | Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 80 | 100 | Case D55 - F80 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.12 | - | - | - | Case H10 & J10 | 0.28 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | - | - | - | Case K14 - M22 | 0.26 | 0.22 | 0.18 | 0.16 | 0.14 | 0.12 | 0.14 | 0.10 | 0.10 |
| Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 80 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case D55 - F80 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.12 | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case H10 & J10 | 0.28 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case K14 - M22 | 0.26 | 0.22 | 0.18 | 0.16 | 0.14 | 0.12 | 0.14 | 0.10 | 0.10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Impedance at 100kHz | At +20°C, 100kHz, impedance (Z) shall not exceed the values given in the Ratings Tables. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Temperature Characteristics | At 120Hz, impedance (Z) ratio between the - 40°C value and +20°C value shall not exceed the values given below. <table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> <th>100</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Z (-40°C) / Z (+20°C)</td> <td>D55 - J10</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>K14 - M22</td> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table> | Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 80 | 100 | Z (-40°C) / Z (+20°C) | D55 - J10 | 3 | 2 | 2 | 2 | 2 | - | - | - | K14 - M22 | 10 | 8 | 6 | 4 | 3 | 3 | 3 | 3 | | | | | | | | | | | |
| Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 80 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Z (-40°C) / Z (+20°C) | D55 - J10 | 3 | 2 | 2 | 2 | 2 | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | K14 - M22 | 10 | 8 | 6 | 4 | 3 | 3 | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endurance (Load Life) | The following specifications shall be satisfied when the capacitors are restored to +20°C after subjecting them to the DC rated voltage for the specified test time at +105°C. <table border="1"> <thead> <tr> <th>Case Code</th> <th>D55 - F80</th> <th>H10 & J10</th> <th>K14 - M22</th> </tr> </thead> <tbody> <tr> <td>Test Time</td> <td>1,000 Hours</td> <td>2,000 Hours</td> <td>5,000 Hours</td> </tr> </tbody> </table> <table border="0"> <tr> <td style="vertical-align: top;"> <p>Case Code D55 - J10 (6.3V)</p> <hr/> Capacitance change: $\leq \pm 30\%$ of initial measured value Tan δ (DF): $\leq 300\%$ of initial specified value Leakage current: \leq initial specified value </td> <td style="vertical-align: top;"> <p>Case Code D55 - M22 (10 - 100V) and K14 - M22 (6.3V)</p> <hr/> Capacitance change: $\leq \pm 20\%$ of initial measured value Tan δ (DF): $\leq 200\%$ of initial specified value Leakage current: \leq initial specified value </td> </tr> </table> | Case Code | D55 - F80 | H10 & J10 | K14 - M22 | Test Time | 1,000 Hours | 2,000 Hours | 5,000 Hours | <p>Case Code D55 - J10 (6.3V)</p> <hr/> Capacitance change: $\leq \pm 30\%$ of initial measured value Tan δ (DF): $\leq 300\%$ of initial specified value Leakage current: \leq initial specified value | <p>Case Code D55 - M22 (10 - 100V) and K14 - M22 (6.3V)</p> <hr/> Capacitance change: $\leq \pm 20\%$ of initial measured value Tan δ (DF): $\leq 200\%$ of initial specified value Leakage current: \leq initial specified value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case Code | D55 - F80 | H10 & J10 | K14 - M22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Time | 1,000 Hours | 2,000 Hours | 5,000 Hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Case Code D55 - J10 (6.3V)</p> <hr/> Capacitance change: $\leq \pm 30\%$ of initial measured value Tan δ (DF): $\leq 300\%$ of initial specified value Leakage current: \leq initial specified value | <p>Case Code D55 - M22 (10 - 100V) and K14 - M22 (6.3V)</p> <hr/> Capacitance change: $\leq \pm 20\%$ of initial measured value Tan δ (DF): $\leq 200\%$ of initial specified value Leakage current: \leq 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. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements. <table border="0"> <tr> <td style="vertical-align: top;"> <p>Case Code D55 - J10 (6.3V)</p> <hr/> Capacitance change: $\leq \pm 30\%$ of initial measured value Tan δ (DF): $\leq 300\%$ of initial specified value Leakage current: \leq initial specified value </td> <td style="vertical-align: top;"> <p>Case Code D55 - M22 (10 - 100V) and K14 - M22 (6.3V)</p> <hr/> Capacitance change: $\leq \pm 20\%$ of initial measured value Tan δ (DF): $\leq 200\%$ of initial specified value Leakage current: \leq initial specified value </td> </tr> </table> | <p>Case Code D55 - J10 (6.3V)</p> <hr/> Capacitance change: $\leq \pm 30\%$ of initial measured value Tan δ (DF): $\leq 300\%$ of initial specified value Leakage current: \leq initial specified value | <p>Case Code D55 - M22 (10 - 100V) and K14 - M22 (6.3V)</p> <hr/> Capacitance change: $\leq \pm 20\%$ of initial measured value Tan δ (DF): $\leq 200\%$ of initial specified value Leakage current: \leq initial specified value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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Diagram of Dimensions

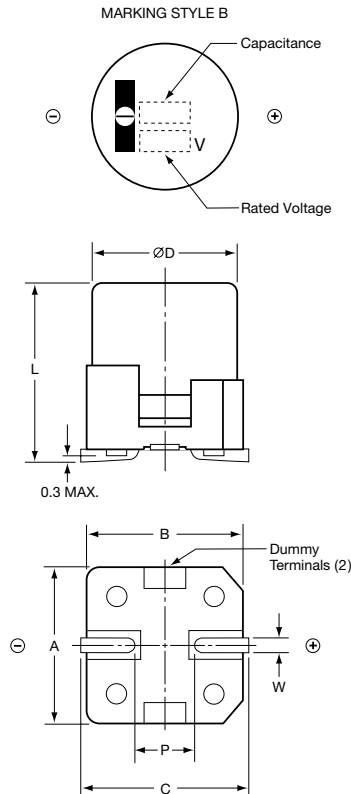
Vertical Chip SMD Lead Terminals

Unit: mm

VC Type $\varnothing D = \varnothing 4 - \varnothing 12.5^*$

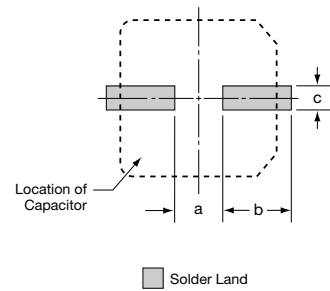


VD Type $\varnothing D = \varnothing 16 \text{ \& } \varnothing 18$

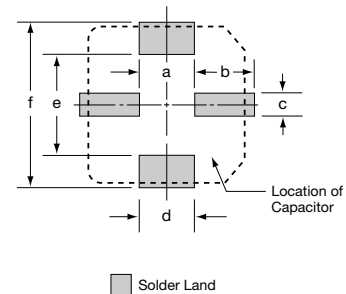


Recommended PCB Land Patterns

VC Type $\varnothing D = \varnothing 4 - \varnothing 12.5$



VD Type $\varnothing D = \varnothing 16 \text{ \& } \varnothing 18$



*Marking Style B is used for all $\varnothing 12.5$ VC Type products.

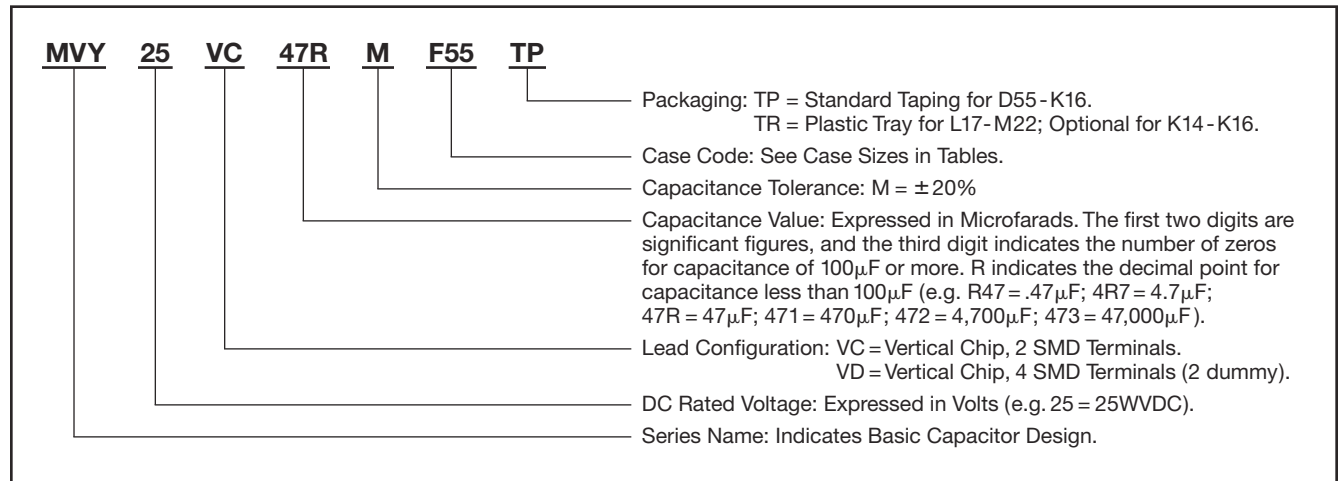
Refer to Packaging section for Surface Mount taping, reel and tray specifications and Surface Mount Soldering section for reflow soldering conditions.

Case and PCB Land Pattern Dimensions

| Case Code | $\varnothing D \pm 0.5$ | L | A ± 0.2 | B ± 0.2 | C ± 0.2 | W | P | a | b | c | d | e | f |
|-----------|-------------------------|----------------|-------------|-------------|-------------|---------|-----|-----|-----|-----|-----|------|------|
| D55 | $\varnothing 4$ | 5.2 ± 0.3 | 4.3 | 4.3 | 5.1 | 0.5-0.8 | 1.0 | 1.0 | 2.6 | 1.6 | - | - | - |
| E55 | $\varnothing 5$ | 5.2 ± 0.3 | 5.3 | 5.3 | 5.9 | 0.5-0.8 | 1.4 | 1.4 | 3.0 | 1.6 | - | - | - |
| F55 | $\varnothing 6.3$ | 5.2 ± 0.3 | 6.6 | 6.6 | 7.2 | 0.5-0.8 | 1.9 | 1.9 | 3.5 | 1.6 | - | - | - |
| F80 | $\varnothing 6.3$ | 7.7 ± 0.3 | 6.6 | 6.6 | 7.2 | 0.5-0.8 | 1.9 | 1.9 | 3.5 | 1.6 | - | - | - |
| H10 | $\varnothing 8$ | 10.0 ± 0.5 | 8.3 | 8.3 | 9.0 | 0.7-1.1 | 3.1 | 3.1 | 4.2 | 2.2 | - | - | - |
| J10 | $\varnothing 10$ | 10.0 ± 0.5 | 10.3 | 10.3 | 11.0 | 0.7-1.1 | 4.5 | 4.5 | 4.4 | 2.2 | - | - | - |
| K14 | $\varnothing 12.5$ | 13.5 ± 0.5 | 13.0 | 13.0 | 13.7 | 1.0-1.3 | 4.2 | 4.0 | 5.7 | 2.5 | - | - | - |
| K16 | $\varnothing 12.5$ | 16.0 ± 0.5 | 13.0 | 13.0 | 13.7 | 1.0-1.3 | 4.2 | 4.0 | 5.7 | 2.5 | - | - | - |
| L17 | $\varnothing 16$ | 16.5 ± 0.5 | 17.0 | 17.0 | 18.0 | 1.0-1.3 | 6.5 | 6.0 | 6.9 | 2.5 | 6.5 | 11.0 | 19.2 |
| L22 | $\varnothing 16$ | 21.5 ± 0.5 | 17.0 | 17.0 | 18.0 | 1.0-1.3 | 6.5 | 6.0 | 6.9 | 2.5 | 6.5 | 11.0 | 19.2 |
| M17 | $\varnothing 18$ | 16.5 ± 0.5 | 19.0 | 19.0 | 20.0 | 1.0-1.3 | 6.5 | 6.0 | 7.9 | 2.5 | 6.5 | 13.0 | 21.2 |
| M22 | $\varnothing 18$ | 21.5 ± 0.5 | 19.0 | 19.0 | 20.0 | 1.0-1.3 | 6.5 | 6.0 | 7.9 | 2.5 | 6.5 | 13.0 | 21.2 |

Part Numbering System for MVY Series

When ordering, always specify complete catalog number for MVY Series.



Standard Voltage Ratings - Surface Mount

| Rated Voltage (WVDC) | Capacitance (μ F) | Catalog Part Number | Nominal Case Size* D x L (mm) | Case Code | Maximum Impedance (Ω) at +20°C, 100kHz | Rated Ripple Current (mA rms) at +105°C, 100kHz |
|-----------------------------------|------------------------|---------------------|-------------------------------|-----------|---|---|
| 6.3 Volts 8 Volts Surge | 22 | MVY6.3VC22RMD55TP | 4 x 5.2 | D55 | 3.0 | 60 |
| | 33 | MVY6.3VC33RME55TP | 5 x 5.2 | E55 | 1.8 | 95 |
| | 47 | MVY6.3VC47RME55TP | 5 x 5.2 | E55 | 1.8 | 95 |
| | 100 | MVY6.3VC101MF55TP | 6.3 x 5.2 | F55 | 1.0 | 140 |
| | 220 | MVY6.3VC221MF55TP | 6.3 x 5.2 | F55 | 1.0 | 140 |
| | 330 | MVY6.3VC331MF80TP | 6.3 x 7.7 | F80 | 0.34 | 280 |
| | 470 | MVY6.3VC471MH10TP | 8 x 10 | H10 | 0.3 | 450 |
| | 680 | MVY6.3VC681MH10TP | 8 x 10 | H10 | 0.3 | 450 |
| | 1,000 | MVY6.3VC102MH10TP | 8 x 10 | H10 | 0.3 | 450 |
| | 1,500 | MVY6.3VC152MJ10TP | 10 x 10 | J10 | 0.15 | 670 |
| | 2,200 | MVY6.3VC222MK14TP | 12.5 x 13.5 | K14 | 0.07 | 820 |
| | 2,200 | MVY6.3VD222ML17TR | 16 x 16.5 | L17 | 0.054 | 1,260 |
| | 3,300 | MVY6.3VC332MK16TP | 12.5 x 16 | K16 | 0.06 | 950 |
| | 3,300 | MVY6.3VD332MM17TR | 18 x 16.5 | M17 | 0.054 | 1,350 |
| | 4,700 | MVY6.3VD472ML22TR | 16 x 21.5 | L22 | 0.038 | 1,630 |
| | 4,700 | MVY6.3VD472MM17TR | 18 x 16.5 | M17 | 0.054 | 1,350 |
| 6,800 | MVY6.3VD682ML22TR | 16 x 21.5 | L22 | 0.038 | 1,630 | |
| 6,800 | MVY6.3VD682MM22TR | 18 x 21.5 | M22 | 0.038 | 1,750 | |
| 8,200 | MVY6.3VD822MM22TR | 18 x 21.5 | M22 | 0.038 | 1,750 | |
| 10 Volts 13 Volts Surge | 22 | MVY10VC22RME55TP | 5 x 5.2 | E55 | 1.8 | 95 |
| | 33 | MVY10VC33RME55TP | 5 x 5.2 | E55 | 1.8 | 95 |
| | 47 | MVY10VC47RMF55TP | 6.3 x 5.2 | F55 | 1.0 | 140 |
| | 100 | MVY10VC101MF55TP | 6.3 x 5.2 | F55 | 1.0 | 140 |
| | 220 | MVY10VC221MF80TP | 6.3 x 7.7 | F80 | 0.34 | 280 |
| | 330 | MVY10VC331MH10TP | 8 x 10 | H10 | 0.3 | 450 |
| | 470 | MVY10VC471MH10TP | 8 x 10 | H10 | 0.3 | 450 |
| | 680 | MVY10VC681MJ10TP | 10 x 10 | J10 | 0.15 | 670 |
| | 1,000 | MVY10VC102MJ10TP | 10 x 10 | J10 | 0.15 | 670 |
| | 2,200 | MVY10VC222MK16TP | 12.5 x 16 | K16 | 0.06 | 950 |
| | 2,200 | MVY10VD222ML17TR | 16 x 16.5 | L17 | 0.054 | 1,260 |
| | 3,300 | MVY10VD332ML17TR | 16 x 16.5 | L17 | 0.054 | 1,260 |
| | 3,300 | MVY10VD332MM17TR | 18 x 16.5 | M17 | 0.054 | 1,350 |
| | 4,700 | MVY10VD472ML22TR | 16 x 21.5 | L22 | 0.038 | 1,630 |
| | 4,700 | MVY10VD472MM22TR | 18 x 21.5 | M22 | 0.038 | 1,750 |
| | 6,800 | MVY10VD682MM22TR | 18 x 21.5 | M22 | 0.038 | 1,750 |
| 16 Volts 20 Volts Surge | 10 | MVY16VC10RMD55TP | 4 x 5.2 | D55 | 3.0 | 60 |
| | 22 | MVY16VC22RME55TP | 5 x 5.2 | E55 | 1.8 | 95 |
| | 33 | MVY16VC33RMF55TP | 6.3 x 5.2 | F55 | 1.0 | 140 |

*Refer to diagrams for detailed case size dimensions.

Standard Voltage Ratings - Surface Mount

| Rated Voltage (WVDC) | Capacitance (µF) | Catalog Part Number | Nominal Case Size* D × L (mm) | Case Code | Maximum Impedance (Ω) at +20°C, 100kHz | Rated Ripple Current (mA rms) at +105°C, 100kHz |
|-----------------------------------|------------------|---------------------|-------------------------------|-----------|--|---|
| 16 Volts 20 Volts Surge | 47 | MVY16VC47RMF55TP | 6.3 × 5.2 | F55 | 1.0 | 140 |
| | 100 | MVY16VC101MF55TP | 6.3 × 5.2 | F55 | 1.0 | 140 |
| | 220 | MVY16VC221MF80TP | 6.3 × 7.7 | F80 | 0.34 | 280 |
| | 330 | MVY16VC331MH10TP | 8 × 10 | H10 | 0.3 | 450 |
| | 470 | MVY16VC471MH10TP | 8 × 10 | H10 | 0.3 | 450 |
| | 680 | MVY16VC681MJ10TP | 10 × 10 | J10 | 0.15 | 670 |
| | 1,000 | MVY16VC102MK14TP | 12.5 × 13.5 | K14 | 0.07 | 820 |
| | 1,000 | MVY16VD102ML17TR | 16 × 16.5 | L17 | 0.054 | 1,260 |
| | 2,200 | MVY16VD222ML17TR | 16 × 16.5 | L17 | 0.054 | 1,260 |
| | 2,200 | MVY16VD222MM17TR | 18 × 16.5 | M17 | 0.054 | 1,350 |
| | 3,300 | MVY16VD332ML22TR | 16 × 21.5 | L22 | 0.038 | 1,630 |
| | 3,300 | MVY16VD332MM17TR | 18 × 16.5 | M17 | 0.054 | 1,350 |
| 4,700 | MVY16VD472MM22TR | 18 × 21.5 | M22 | 0.038 | 1,750 | |
| 25 Volts 32 Volts Surge | 10 | MVY25VC10RME55TP | 5 × 5.2 | E55 | 1.8 | 95 |
| | 22 | MVY25VC22RMF55TP | 6.3 × 5.2 | F55 | 1.0 | 140 |
| | 33 | MVY25VC33RMF55TP | 6.3 × 5.2 | F55 | 1.0 | 140 |
| | 47 | MVY25VC47RMF55TP | 6.3 × 5.2 | F55 | 1.0 | 140 |
| | 100 | MVY25VC101MF80TP | 6.3 × 7.7 | F80 | 0.34 | 280 |
| | 220 | MVY25VC221MH10TP | 8 × 10 | H10 | 0.3 | 450 |
| | 330 | MVY25VC331MH10TP | 8 × 10 | H10 | 0.3 | 450 |
| | 470 | MVY25VC471MJ10TP | 10 × 10 | J10 | 0.15 | 670 |
| | 1,000 | MVY25VD102ML17TR | 16 × 16.5 | L17 | 0.054 | 1,260 |
| | 1,000 | MVY25VD102MM17TR | 18 × 16.5 | M17 | 0.054 | 1,350 |
| | 2,200 | MVY25VD222ML22TR | 16 × 21.5 | L22 | 0.038 | 1,630 |
| | 2,200 | MVY25VD222MM22TR | 18 × 21.5 | M22 | 0.038 | 1,750 |
| 3,300 | MVY25VD332MM22TR | 18 × 21.5 | M22 | 0.038 | 1,750 | |
| 35 Volts 44 Volts Surge | 4.7 | MVY35VC4R7MD55TP | 4 × 5.2 | D55 | 3.0 | 60 |
| | 10 | MVY35VC10RME55TP | 5 × 5.2 | E55 | 1.8 | 95 |
| | 22 | MVY35VC22RMF55TP | 6.3 × 5.2 | F55 | 1.0 | 140 |
| | 33 | MVY35VC33RMF55TP | 6.3 × 5.2 | F55 | 1.0 | 140 |
| | 47 | MVY35VC47RMF55TP | 6.3 × 5.2 | F55 | 1.0 | 140 |
| | 68 | MVY35VC68RMF80TP | 6.3 × 7.7 | F80 | 0.34 | 280 |
| | 100 | MVY35VC101MH10TP | 8 × 10 | H10 | 0.3 | 450 |
| | 220 | MVY35VC221MH10TP | 8 × 10 | H10 | 0.3 | 450 |
| | 330 | MVY35VC331MJ10TP | 10 × 10 | J10 | 0.15 | 670 |
| | 470 | MVY35VC471MK14TP | 12.5 × 13.5 | K14 | 0.07 | 820 |
| | 470 | MVY35VD471ML17TR | 16 × 16.5 | L17 | 0.054 | 1,260 |
| | 1,000 | MVY35VD102ML17TR | 16 × 16.5 | L17 | 0.054 | 1,260 |
| | 1,000 | MVY35VD102MM17TR | 18 × 16.5 | M17 | 0.054 | 1,350 |
| 2,200 | MVY35VD222MM22TR | 18 × 21.5 | M22 | 0.038 | 1,750 | |
| 50 Volts 63 Volts Surge | 1.0 | MVY50VC1R0MD55TP | 4 × 5.2 | D55 | 5.0 | 30 |
| | 2.2 | MVY50VC2R2MD55TP | 4 × 5.2 | D55 | 5.0 | 30 |
| | 3.3 | MVY50VC3R3MD55TP | 4 × 5.2 | D55 | 5.0 | 30 |
| | 4.7 | MVY50VC4R7ME55TP | 5 × 5.2 | E55 | 3.0 | 50 |
| | 10 | MVY50VC10RMF55TP | 6.3 × 5.2 | F55 | 2.0 | 70 |
| | 22 | MVY50VC22RMF55TP | 6.3 × 5.2 | F55 | 2.0 | 70 |
| | 33 | MVY50VC33RMF80TP | 6.3 × 7.7 | F80 | 0.6 | 170 |
| | 47 | MVY50VC47RMF80TP | 6.3 × 7.7 | F80 | 0.6 | 170 |
| | 68 | MVY50VC68RMH10TP | 8 × 10 | H10 | 0.6 | 300 |
| | 100 | MVY50VC101MH10TP | 8 × 10 | H10 | 0.6 | 300 |
| | 220 | MVY50VC221MJ10TP | 10 × 10 | J10 | 0.3 | 500 |
| | 330 | MVY50VC331MK14TP | 12.5 × 13.5 | K14 | 0.11 | 650 |
| | 330 | MVY50VD331ML17TR | 16 × 16.5 | L17 | 0.087 | 900 |
| | 470 | MVY50VD471ML17TR | 16 × 16.5 | L17 | 0.087 | 900 |
| | 470 | MVY50VD471MM17TR | 18 × 16.5 | M17 | 0.087 | 1,060 |
| | 1,000 | MVY50VD102MM22TR | 18 × 21.5 | M22 | 0.05 | 1,520 |

*Refer to diagrams for detailed case size dimensions.

Standard Voltage Ratings - Surface Mount

| Rated Voltage (WVDC) | Capacitance (μF) | Catalog Part Number | Nominal Case Size* D × L (mm) | Case Code | Maximum Impedance (Ω) at +20°C, 100kHz | Rated Ripple Current (mA rms) at +105°C, 100kHz |
|--|------------------|---------------------|-------------------------------|-----------|--|---|
| 63 Volts 79 Volts Surge | 68 | MVY63VC68RMK14TP | 12.5 × 13.5 | K14 | 0.19 | 500 |
| | 100 | MVY63VC101MK14TP | 12.5 × 13.5 | K14 | 0.19 | 500 |
| | 220 | MVY63VC221MK14TP | 12.5 × 13.5 | K14 | 0.19 | 500 |
| | 220 | MVY63VD221ML17TR | 16 × 16.5 | L17 | 0.12 | 845 |
| | 330 | MVY63VD331ML17TR | 16 × 16.5 | L17 | 0.12 | 845 |
| | 330 | MVY63VD331MM17TR | 18 × 16.5 | M17 | 0.12 | 905 |
| | 470 | MVY63VD471ML22TR | 16 × 21.5 | L22 | 0.085 | 1,100 |
| | 470 | MVY63VD471MM17TR | 18 × 16.5 | M17 | 0.12 | 905 |
| 80 Volts 100 Volts Surge Not Solvent Proof | 100 | MVY80VC101MK14TP | 12.5 × 13.5 | K14 | 0.33 | 450 |
| | 220 | MVY80VC221MK16TP | 12.5 × 16 | K16 | 0.26 | 550 |
| | 330 | MVY80VD331ML22TR | 16 × 21.5 | L22 | 0.16 | 900 |
| | 330 | MVY80VD331MM17TR | 18 × 16.5 | M17 | 0.24 | 700 |
| | 470 | MVY80VD471MM22TR | 18 × 21.5 | M22 | 0.16 | 950 |
| 100 Volts 125 Volts Surge Not Solvent Proof | 47 | MVY100VC47RMK14TP | 12.5 × 13.5 | K14 | 0.33 | 450 |
| | 68 | MVY100VC68RMK14TP | 12.5 × 13.5 | K14 | 0.33 | 450 |
| | 100 | MVY100VC101MK14TP | 12.5 × 13.5 | K14 | 0.33 | 450 |
| | 100 | MVY100VD101ML17TR | 16 × 16.5 | L17 | 0.24 | 650 |
| | 220 | MVY100VD221ML22TR | 16 × 21.5 | L22 | 0.16 | 900 |
| | 220 | MVY100VD221MM17TR | 18 × 16.5 | M17 | 0.24 | 700 |
| | 330 | MVY100VD331MM22TR | 18 × 21.5 | M22 | 0.16 | 950 |

*Refer to diagrams for detailed case size dimensions.