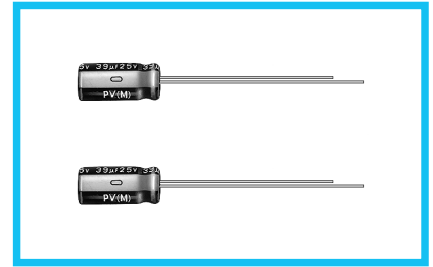


# ALUMINUM ELECTROLYTIC CAPACITORS

**PV** series  
Miniature Sized, Low Impedance, High Reliability



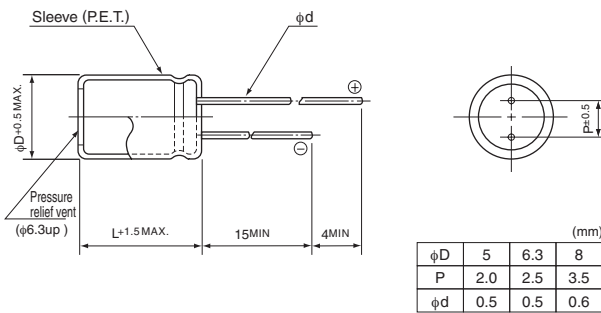
- Miniature sized low impedance series withstanding 5000 hours load life at +105°C.
- Compliant to the RoHS directive (2011/65/EU).



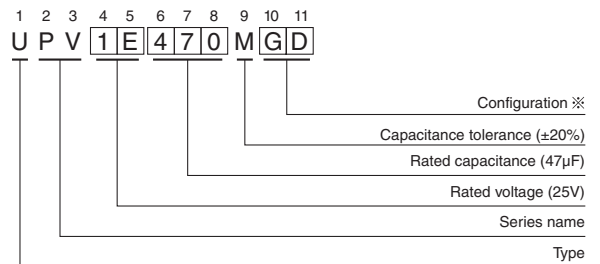
## Specifications

| Item                          | Performance Characteristics  |   |      |      |      |      |      |   |
|-------------------------------|--|---|------|------|------|------|------|---|
| Category Temperature Range    | -55 to +105°C  |   |      |      |      |      |      |   |
| Rated Voltage Range           | 6.3 to 50V   |   |      |      |      |      |      |   |
| Rated Capacitance Range       | 0.47 to 390μF  |   |      |      |      |      |      |   |
| Capacitance Tolerance         | ±20% at 120Hz, 20°C  |   |      |      |      |      |      |   |
| Leakage Current               | After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.03CV or 4 (μA), whichever is greater.  |   |      |      |      |      |      |   |
| Tangent of loss angle (tan δ) | Measurement frequency : 120Hz at 20°C  |   |      |      |      |      |      |   |
|                               | Rated voltage (V)  | 6.3   | 10   | 16   | 25   | 35   | 50   |   |
|                               | tan δ (MAX.)   | 0.22  | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 |   |
| Stability at Low Temperature  | Measurement frequency : 120Hz  |   |      |      |      |      |      |   |
|                               | Rated voltage (V)  | 6.3   | 10   | 16   | 25   | 35   | 50   |   |
|                               | Impedance ratio ZT / Z20 (MAX.)  | Z-55°C / Z+20°C                               | 5    | 5    | 4    | 3    | 3    | 2 |
| Endurance                     | The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 5000 hours at 105°C.   |   |      |      |      |      |      |   |
|                               | Capacitance change   | Within ±30% of the initial capacitance value  |      |      |      |      |      |   |
|                               | tan δ  | 300% or less than the initial specified value |      |      |      |      |      |   |
| Shelf Life                    | After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed at right. |   |      |      |      |      |      |   |
|                               | Capacitance change   | Within ±20% of the initial capacitance value  |      |      |      |      |      |   |
|                               | tan δ  | 150% or less than the initial specified value |      |      |      |      |      |   |
| Leakage current               | Less than or equal to the initial specified value  |   |      |      |      |      |      |   |
|                               | Printed with white color letter on dark brown sleeve.  |   |      |      |      |      |      |   |

## Radial Lead Type



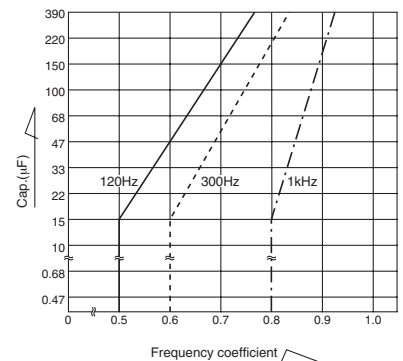
## Type numbering system (Example : 25V 47μF)



※ Configuration

| φ D     | Pb-free leadwire<br>Pb-free PET sleeve |
|---------|--|
| 5       | FD                                     |
| 6.3 · 8 | GD                                     |

- Frequency coefficient of rated ripple current (10kHz to 200kHz=1)



Please refer to page 20, 21, 22 about the formed or taped product spec.  
Please refer to page 4 for the minimum order quantity.

- Dimension table in next page.

## ■ Dimensions

| V(Code)<br>Item<br>Code<br>Cap.(μF) |     | 6.3 (0J)                     |                                      |   | 10 (1A)                      |                                      |   | 16 (1C)                      |                                      |   | 25 (1E)                      |                                      |   |
|-------------------------------------|-----|------------------------------|--------------------------------------|---|------------------------------|--------------------------------------|---|------------------------------|--------------------------------------|---|------------------------------|--------------------------------------|---|
|                                     |     | Case size<br>φ D × L<br>(mm) | Impedance<br>(Ω) MAX.<br>20°C/100kHz | Rated ripple<br>(mArms)<br>105°C/100kHz | Case size<br>φ D × L<br>(mm) | Impedance<br>(Ω) MAX.<br>20°C/100kHz | Rated ripple<br>(mArms)<br>105°C/100kHz | Case size<br>φ D × L<br>(mm) | Impedance<br>(Ω) MAX.<br>20°C/100kHz | Rated ripple<br>(mArms)<br>105°C/100kHz | Case size<br>φ D × L<br>(mm) | Impedance<br>(Ω) MAX.<br>20°C/100kHz | Rated ripple<br>(mArms)<br>105°C/100kHz |
| 33                                  | 330 |                              |                                      |   |                              |                                      |   |                              |                                      |   | 5 × 11                       | 1.40                                 | 155                                     |
| 39                                  | 390 |                              |                                      |   |                              |                                      |   |                              |                                      |   | 5 × 11                       | 1.10                                 | 175                                     |
| 47                                  | 470 |                              |                                      |   |                              |                                      |   | 5 × 11                       | 1.40                                 | 155                                     | 6.3 × 11                     | 0.94                                 | 210                                     |
| 56                                  | 560 |                              |                                      |   |                              |                                      |   | 5 × 11                       | 1.10                                 | 175                                     | 6.3 × 11                     | 0.75                                 | 235                                     |
| 68                                  | 680 |                              |                                      |   | 5 × 11                       | 1.40                                 | 155                                     | 6.3 × 11                     | 0.85                                 | 220                                     | 6.3 × 11                     | 0.61                                 | 260                                     |
| 82                                  | 820 |                              |                                      |   | 5 × 11                       | 1.10                                 | 175                                     | 6.3 × 11                     | 0.71                                 | 240                                     | 6.3 × 11                     | 0.51                                 | 285                                     |
| 100                                 | 101 | 5 × 11                       | 1.50                                 | 150                                     | 6.3 × 11                     | 0.94                                 | 210                                     | 6.3 × 11                     | 0.60                                 | 265                                     | 8 × 11.5                     | 0.41                                 | 370                                     |
| 120                                 | 121 | 5 × 11                       | 1.10                                 | 175                                     | 6.3 × 11                     | 0.75                                 | 235                                     | 6.3 × 11                     | 0.49                                 | 290                                     | 8 × 11.5                     | 0.34                                 | 405                                     |
| 150                                 | 151 | 6.3 × 11                     | 0.83                                 | 225                                     | 6.3 × 11                     | 0.60                                 | 265                                     | 8 × 11.5                     | 0.39                                 | 375                                     | 8 × 11.5                     | 0.27                                 | 460                                     |
| 180                                 | 181 | 6.3 × 11                     | 0.66                                 | 250                                     | 6.3 × 11                     | 0.49                                 | 290                                     | 8 × 11.5                     | 0.34                                 | 405                                     |                              |                                      |   |
| 220                                 | 221 | 6.3 × 11                     | 0.51                                 | 285                                     | 8 × 11.5                     | 0.41                                 | 370                                     | 8 × 11.5                     | 0.27                                 | 460                                     |                              |                                      |   |
| 270                                 | 271 | 8 × 11.5                     | 0.41                                 | 370                                     | 8 × 11.5                     | 0.34                                 | 405                                     |                              |                                      |   |                              |                                      |   |
| 330                                 | 331 | 8 × 11.5                     | 0.34                                 | 405                                     | 8 × 11.5                     | 0.27                                 | 460                                     |                              |                                      |   |                              |                                      |   |
| 390                                 | 391 | 8 × 11.5                     | 0.29                                 | 445                                     |                              |                                      |   |                              |                                      |   |                              |                                      |   |

| V(Code)<br>Item<br>Code<br>Cap.(μF) |     | 35 (1V)                      |                                      |   | 50 (1H)                      |                                      |   |
|-------------------------------------|-----|------------------------------|--------------------------------------|---|------------------------------|--------------------------------------|---|
|                                     |     | Case size<br>φ D × L<br>(mm) | Impedance<br>(Ω) MAX.<br>20°C/100kHz | Rated ripple<br>(mArms)<br>105°C/100kHz | Case size<br>φ D × L<br>(mm) | Impedance<br>(Ω) MAX.<br>20°C/100kHz | Rated ripple<br>(mArms)<br>105°C/100kHz |
| 0.47                                | R47 |                              |                                      |   | 5 × 11                       | 32.0                                 | 22                                      |
| 0.68                                | R68 |                              |                                      |   | 5 × 11                       | 22.0                                 | 28                                      |
| 1                                   | 010 |                              |                                      |   | 5 × 11                       | 15.0                                 | 36                                      |
| 1.5                                 | 1R5 |                              |                                      |   | 5 × 11                       | 11.0                                 | 45                                      |
| 2.2                                 | 2R2 |                              |                                      |   | 5 × 11                       | 7.00                                 | 54                                      |
| 3.3                                 | 3R3 |                              |                                      |   | 5 × 11                       | 4.60                                 | 66                                      |
| 4.7                                 | 4R7 |                              |                                      |   | 5 × 11                       | 3.10                                 | 81                                      |
| 6.8                                 | 6R8 |                              |                                      |   | 5 × 11                       | 2.50                                 | 91                                      |
| 10                                  | 100 |                              |                                      |   | 5 × 11                       | 2.00                                 | 115                                     |
| 12                                  | 120 |                              |                                      |   | 5 × 11                       | 1.70                                 | 125                                     |
| 15                                  | 150 |                              |                                      |   | 5 × 11                       | 1.30                                 | 145                                     |
| 18                                  | 180 |                              |                                      |   | 5 × 11                       | 1.10                                 | 155                                     |
| 22                                  | 220 | 5 × 11                       | 1.30                                 | 160                                     | 6.3 × 11                     | 0.91                                 | 195                                     |
| 27                                  | 270 | 5 × 11                       | 1.00                                 | 180                                     | 6.3 × 11                     | 0.74                                 | 215                                     |
| 33                                  | 330 | 6.3 × 11                     | 0.83                                 | 225                                     | 6.3 × 11                     | 0.60                                 | 240                                     |
| 39                                  | 390 | 6.3 × 11                     | 0.70                                 | 245                                     | 6.3 × 11                     | 0.50                                 | 260                                     |
| 47                                  | 470 | 6.3 × 11                     | 0.58                                 | 270                                     | 8 × 11.5                     | 0.42                                 | 330                                     |
| 56                                  | 560 | 6.3 × 11                     | 0.48                                 | 295                                     | 8 × 11.5                     | 0.35                                 | 360                                     |
| 68                                  | 680 | 8 × 11.5                     | 0.41                                 | 370                                     | 8 × 11.5                     | 0.28                                 | 410                                     |
| 82                                  | 820 | 8 × 11.5                     | 0.32                                 | 415                                     |                              |                                      |   |
| 100                                 | 101 | 8 × 11.5                     | 0.27                                 | 460                                     |                              |                                      |   |

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