

HV Series

Features

- ◆ Long life of 2000 hrs at 105°C
- ◆ Reflow soldering is available
- ◆ Available for high density mounting
- ◆ For detail specifications, please refer to Engineering Bulletin No. E131
- ◆ RoHS Compliant



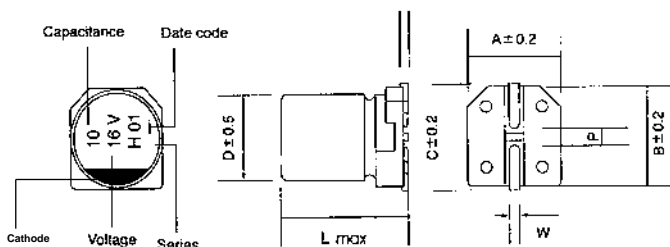
Specifications

| Item | Performance Characteristics |
|---|---|
| Operating Temperature Range | -55 +105°C |
| Rated Voltage Range | 6.3~50 VDC |
| Capacitance Range | 0.1 to 1500 μF |
| Capacitance Tolerance | ±20%(120Hz,+20°C) |
| Leakage Current (+20°C,max.) | I ≤ 0.01 CV or 3 (μA) After 2 minutes, whichever is greater measured with rated working voltage applied |
| Dissipation Factor (tan δ , at 20°C , 120Hz) | Working voltage(VDC) |
| | D.F.(%)max |
| Low Temperature Characteristics (at 120Hz) | Impedance ratio max |
| | Rated voltage(VDC) |
| | Z-25°C / Z+20°C |
| Load Life | Test conditions |
| | Duration time |
| | Ambient temperature |
| | Applied voltage |
| Shelf Life | Test conditions |
| | Duration time |
| | Ambient temperature |
| | Applied voltage |
| Resistance to soldering heat | The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the characteristic requirements listed under. |
| | Leakage current |
| | Capacitance change |

Multiplier for Ripple Current vs. Frequency

| CAP(μF)\Frequency(Hz) | 60(50) | 120 | 500 | 1K | ≥10K |
|-----------------------|--------|-----|------|------|------|
| 0.1 ≤ CAP ≤ 100 μF | 0.8 | 1.0 | 1.20 | 1.30 | 1.50 |
| 100 < CAP ≤ 1500 μF | 0.8 | 1.0 | 1.10 | 1.15 | 1.20 |

Diagram of Dimensions:(unit:mm)



| φD | L | A | B | C | W | P |
|-----|------|------|------|------|---------|-----|
| 4 | 5.5 | 4.3 | 4.3 | 4.9 | 0.5~0.8 | 1.0 |
| 5 | 5.5 | 5.3 | 5.3 | 5.9 | 0.5~0.8 | 1.4 |
| 6.3 | 5.5 | 6.6 | 6.6 | 7.2 | 0.5~0.8 | 2.2 |
| 6.3 | 7.7 | 6.6 | 6.6 | 7.2 | 0.5~0.8 | 2.2 |
| 8 | 6.5 | 8.3 | 8.3 | 9.0 | 0.5~0.8 | 2.3 |
| 8 | 10.5 | 8.3 | 8.3 | 9.0 | 0.7~1.1 | 3.1 |
| 10 | 10.5 | 10.3 | 10.3 | 11.0 | 0.7~1.1 | 4.5 |

Case Size

φ DxL(mm)

| WV (SV) Cap(μF) | 6.3 (8) | | 10 (13) | | 16 (20) | | 25 (32) | | 35 (44) | | 50 (63) | |
|--------------------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|
| | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple |
| 0.1 | | | | | | | | | | | 4X5.5 | 1.0 |
| 0.22 | | | | | | | | | | | 4X5.5 | 2.0 |
| 0.33 | | | | | | | | | | | 4X5.5 | 3.0 |
| 0.47 | | | | | | | | | | | 4X5.5 | 4.0 |
| 1 | | | | | | | | | | | 4X5.5 | 8.4 |
| 2.2 | | | | | | | | | | | 4X5.5 | 11 |
| 3.3 | | | | | | | | | | | 4X5.5 | 13 |
| 4.7 | | | | | | | 4X5.5 | 12 | 4X5.5 | 14 | 4X5.5 | 18 |
| 10 | | | | | 4X5.5 | 20 | 4X5.5 | 22 | 4X5.5 | 24 | 6.3X5.5 | 28 |
| 22 | 4X5.5 | 23 | 4X5.5 | 25 | 4X5.5 | 31 | 5X5.5 | 38 | 5X5.5 | 40 | 6.3X7.7 | 50 |
| | | | | | 5X5.5 | 35 | | | 6.3X5.5 | 46 | 8X6.5 | 55 |
| 33 | 4X5.5 | 28 | 4X5.5 | 34 | 5X5.5 | 36 | 6.3X5.5 | 48 | 6.3X7.7 | 47 | 6.3X7.7 | 95 |
| | | | | | 6.3X5.5 | 40 | | | 8X6.5 | 50 | 8X10.5 | 135 |
| 47 | 4X5.5 | 37 | 5X5.5 | 40 | 5X5.5 | 45 | 6.3X7.7 | 56 | 6.3X7.7 | 60 | 6.3X7.7 | 115 |
| | 5X5.5 | 42 | | | 6.3X5.5 | 56 | 8X6.5 | 60 | 8X6.5 | 65 | 8X10.5 | 155 |
| 100 | 5X5.5 | 46 | 6.3X5.5 | 55 | 6.3X7.7 | 58 | 6.3X7.7 | 110 | 6.3X7.7 | 130 | 10X10.5 | 315 |
| | 6.3X5.5 | 57 | 8X6.5 | 60 | 8X6.5 | 62 | 8X10.5 | 160 | 8X10.5 | 180 | | |
| 150 | 6.3X5.5 | 70 | 6.3X5.5 | 90 | 6.3X7.7 | 125 | 8X10.5 | 175 | 8X10.5 | 190 | 10X10.5 | 330 |
| | 8X6.5 | 90 | 8X6.5 | 110 | 8X6.5 | 140 | | | 8X10.5 | 180 | 8X10.5 | 250 |
| 220 | 6.3X7.7 | 90 | 6.3X7.7 | 140 | 6.3X7.7 | 170 | 8X10.5 | 180 | 8X10.5 | 250 | 10X10.5 | 350 |
| | 8X6.5 | 130 | 8X6.5 | 160 | 8X10.5 | 185 | 10X10.5 | 190 | 10X10.5 | 280 | | |
| 330 | 6.3X7.7 | 140 | 8X10.5 | 195 | 8X10.5 | 250 | 8X10.5 | 290 | 10X10.5 | 360 | | |
| | 8X10.5 | 170 | | | | | | | | | | |
| 470 | 8X10.5 | 210 | 8X10.5 | 350 | 8X10.5 | 370 | 10X10.5 | 440 | | | | |
| | | | 10X10.5 | 420 | 10X10.5 | 420 | | | | | | |
| 560 | 8X10.5 | 310 | 10X10.5 | 450 | 10X10.5 | 480 | | | | | | |
| 680 | 10X10.5 | 370 | 10X10.5 | 480 | 10X10.5 | 540 | | | | | | |
| 1000 | 10X10.5 | 480 | 10X10.5 | 530 | | | | | | | | |
| 1200 | 10X10.5 | 500 | | | | | | | | | | |
| 1500 | 10X10.5 | 520 | | | | | | | | | | |

Ripple Current (mA, rms) at 105°C

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