

Hybrid Conductive Polymer Type / Surface Mount Type

RoHS compliance

# HVPZ Series

125°C

High Ripple Current

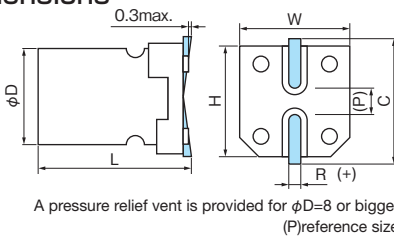
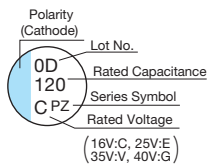


- 125°C 2,000 to 3,000hours
- Solvent proof (within 2 minutes)
- AEC-Q200

## Specifications

| Items                           | Condition  | Specifications                     |                                       |   |    |  |
|---------------------------------|--|------------------------------------|---------------------------------------|---|----|--|
| Rated voltage (V)               | —  | 16                                 | 25                                    | 35  | 40 |  |
| Surge voltage (V)               | Room temperature   | 20                                 | 32                                    | 44  | 50 |  |
| Category temperature range (°C) | —  | -55 to +125                        |                                       |   |    |  |
| Capacitance tolerance (%)       | 120Hz/20°C   | M : ±20                            |                                       |   |    |  |
| Dissipation Factor (tan δ)      | tanδ (max.) 120Hz/20°C   | 0.16                               |                                       |   |    |  |
| Leakage current (LC)            | μA/after 2minutes (max.)   | The greater value of either 0.01CV |                                       |   |    |  |
| Endurance                       | 125°C<br>rated voltage applied<br>(With the rated<br>ripple current) | Test                               | 16V                                   | φ6.3 : 2,000hours, D <sub>≥</sub> φ8 : 2,500hours |    |  |
|                                 |  |                                    | 25V <sub>≤</sub>                      | φ6.3 : 2,000hours, D <sub>≥</sub> φ8 : 3,000hours |    |  |
|                                 |  | ΔC/C                               | Within ±30% of the initial value      |   |    |  |
|                                 |  | tanδ                               | Less than 200% of the specified value |   |    |  |
|                                 |  | ESR                                | Less than 200% of the specified value |   |    |  |
|                                 |  | LC                                 | Less than the specified value         |   |    |  |

## Marking, Dimensions



(Unit : mm)

| D <sup>±0.5</sup> | L <sup>±0.3</sup> | W <sup>±0.2</sup> | H <sup>±0.2</sup> | C <sup>±0.2</sup> | R          | P   |
|-------------------|-------------------|-------------------|-------------------|-------------------|------------|-----|
| 6.3               | 6.0               | 6.6               | 6.6               | 7.3               | 0.5 to 0.8 | 2.2 |
| 6.3               | 7.7               | 6.6               | 6.6               | 7.3               | 0.5 to 0.8 | 2.2 |
| 8                 | 10.5              | 8.3               | 8.3               | 9.0               | 0.7 to 1.0 | 3.2 |
| 10                | 10.5              | 10.3              | 10.3              | 11.0              | 1.0 to 1.4 | 4.6 |
| 10                | 12.5              | 10.3              | 10.3              | 11.0              | 1.0 to 1.4 | 4.6 |

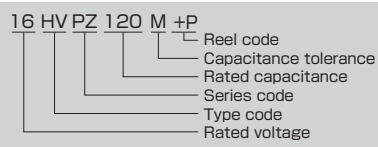
## Size, ESR, Rated Ripple Current

| μF  | 16        |     | 25        |         | 35        |         | 40        |         |         |      |      |
|-----|-----------|-----|-----------|---------|-----------|---------|-----------|---------|---------|------|------|
|     | Case size | ESR | Case size | ESR     | Case size | ESR     | Case size | ESR     |         |      |      |
| 18  |           |     |           |         |           |         | 6.3x6.0   | 55      | 1050    |      |      |
| 27  |           |     |           |         | 6.3x6.0   | 50      | 1070      | 6.3x7.7 | 48      | 1230 |      |
| 47  |           |     | 6.3x6.0   | 40      | 1260      | 6.3x7.7 | 45        | 1280    |         |      |      |
| 56  |           |     |           |         |           |         | 8x10.5    | 30      | 1710    |      |      |
| 68  |           |     | 6.3x7.7   | 35      | 1380      |         |           |         |         |      |      |
| 82  | 6.3x6.0   | 38  | 1320      |         |           |         |           |         |         |      |      |
| 100 |           |     |           |         |           | 8x10.5  | 28        | 1780    | 10x10.5 | 21   | 2360 |
| 120 | 6.3x7.7   | 32  | 1440      |         |           |         |           |         | 10x12.5 | 16   | 2700 |
| 150 |           |     | 8x10.5    | 25      | 1880      | 10x10.5 | 20        | 2440    |         |      |      |
| 220 |           |     |           |         |           | 10x12.5 | 15        | 2800    |         |      |      |
| 270 | 8x10.5    | 23  | 1970      | 10x10.5 | 19        | 2500    |           |         |         |      |      |
| 330 |           |     | 10x12.5   | 14      | 2890      |         |           |         |         |      |      |
| 470 | 10x10.5   | 18  | 2620      |         |           |         |           |         |         |      |      |
| 560 | 10x12.5   | 14  | 3030      |         |           |         |           |         |         |      |      |

Please refer to page 18 for ripple current frequency coefficients.

ESR(mΩ)max. at 100kHz, 20°C  
Case size: φDxL(mm)  
Rated ripple current  
mA rms(100kHz, 125°C)

## Part number



Soldering Condition  
Reflow Soldering Condition  
Ripple Current Frequency Coefficient

- HVA
- HVBF
- HVH
- HVP
- HVT
- HVHZ
- HVPZ
- HVHF
- HVPF
- HVPX
- HVTX
- HVPY
- HVTY

- HVHC **NEW**
- HVPC
- HVJ
- FVF **NEW**
- FVS **NEW**
- HEHF
- HEPF