

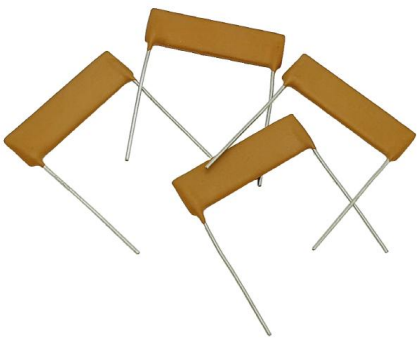
# High Voltage Flat Style Resistors

## HVR Series

Low-cost, high-voltage resistors that provide high-density packaging in large volume applications.

### Features

- Up to 32 kV operating voltage
- Non-Inductive design
- Power Range : 1/4W -30W
- Lead Material : copper, tin-plated
- ROHS compliant
- On request custom designed version available



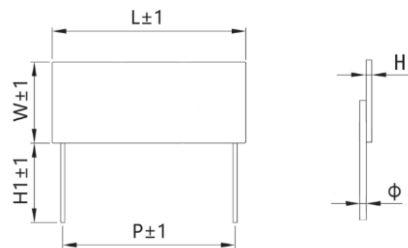
### Technical Specifications

- Resistance value :  $10\ \Omega \leq 500\ \text{M}\Omega$  (higher values on special request)
- Resistance tolerance :  $\pm 1.0\%$  to  $\pm 10\%$
- Temperature coefficient : 200 ppm/°C to 300 ppm/°C
- Max. operating temperature : -55°C to +225°C
- Coating : Silicone resin

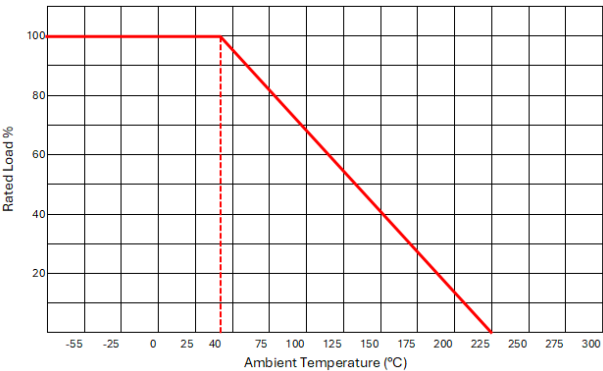
### Model Specifications

| Model no. | Power | Resistance Range | Tolerance                                 | Dimensions(mm) |     |       |      |      |         | Max Voltage (kV) | N.W(g) |
|-----------|-------|------------------|-------------------------------------------|----------------|-----|-------|------|------|---------|------------------|--------|
|           |       |                  |                                           | L±1            | W±1 | H±0.5 | P±1  | H1±2 | Φ ± 0.2 |                  |        |
| HVR1/4C   | 1/4W  | 10Ω ~ 500MΩ      | K (±10%)<br>J (±5%)<br>G (±2%)<br>F (±1%) | 10             | 5   | 2     | 7.7  | 10   | 0.6     | 4                | 0.3    |
| HVR1/2C   | 1/2W  | 10Ω ~ 500MΩ      |                                           | 25             | 5   | 2     | 22.5 | 20   | 0.6     | 10               | 0.6    |
| HVR01C    | 1W    | 10Ω ~ 500MΩ      |                                           | 30             | 8   | 2     | 27   | 20   | 0.6     | 15               | 1.1    |
| HVR02C    | 2W    | 20Ω ~ 500MΩ      |                                           | 25             | 10  | 2     | 22   | 20   | 0.8     | 15               | 1.0    |
| HVR02C    | 2W    | 20Ω ~ 500MΩ      |                                           | 22             | 18  | 2     | 19   | 20   | 0.8     | 15               | 1.1    |
| HVR03C    | 3W    | 20Ω ~ 500MΩ      |                                           | 50             | 10  | 3     | 47   | 20   | 0.8     | 15               | 2.0    |
| HVR05C    | 5W    | 20Ω ~ 500MΩ      |                                           | 60             | 10  | 3     | 56.5 | 20   | 0.8     | 25               | 3.0    |
| HVR10C    | 10W   | 30Ω ~ 500MΩ      |                                           | 80             | 20  | 4     | 76.5 | 20   | 1.0     | 30               | 8.0    |
| HVR15C    | 15W   | 20Ω ~ 500MΩ      |                                           | 97             | 23  | 4     | 93.5 | 20   | 1.0     | 35               | 10.0   |
| HVR20C    | 20W   | 50Ω ~ 500MΩ      |                                           | 100            | 35  | 4     | 96.5 | 20   | 1.0     | 35               | 15.0   |
| HVR30C    | 30W   | 50Ω ~ 500MΩ      |                                           | 100            | 48  | 4     | 96.5 | 20   | 1.0     | 35               | 21.0   |

Note : Rated Continuous Working Voltage =  $\sqrt{\text{Power Rating} \times \text{Resistance Value}}$  or Max Working Voltage listed above (The lower of the two values)



Derating Curve



### How to make request

Model no - Ohmic Value, Tolerance

For example:  
HVR01C-100MF or HVR03C-50MJ