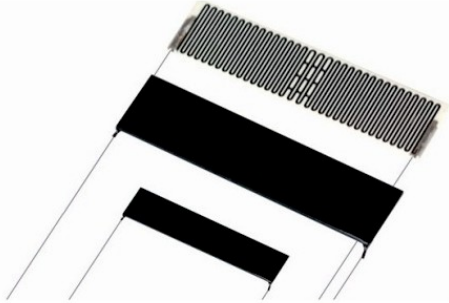


HVR-GHP Series High Voltage Thick Film Planar Resistors



FEATURES

- Non-inductive thick film design, planar / PCB mount
- HVR-GHP Coating Options: epoxy resin, high temperature silicone or transparent varnish (polyimide), max withstand voltage 35KV, 16 standard part numbers
- HVR-GHP Series: high power density, CNC laser trimmed for precision
- Max thickness 3mm, non-inductive, terminal standard pin material is plated copper



RoHS*
COMPLIANT

HALOGEN
FREE

TECHNICAL SPECIFICATION

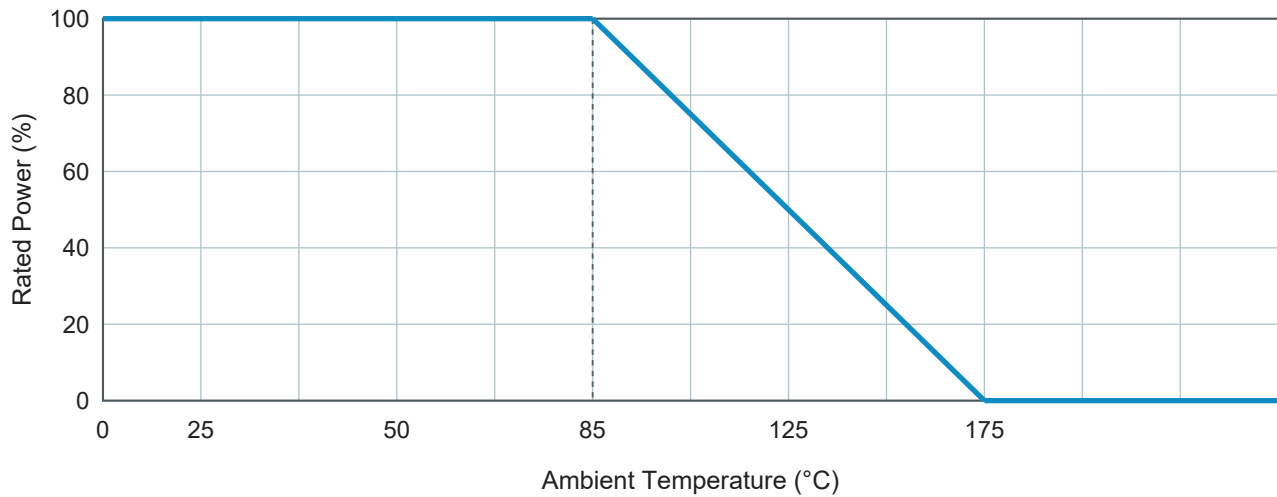
Parameter	Specification
Resistance Range	200Ω to 1TΩ (higher upon request)
Tolerance	±0.2% to ±10%
Temperature Coefficient	±25 to ±80 ppm/°C (25°C ~ 105°C), other requirements negotiable
Max Working Voltage	130% rated working voltage
Working Temperature Range	-40°C to +155°C
Power Endurance	1,000 h at rated power, $\Delta R \leq \pm 0.15\%R$
Overload	5× rated power, $\leq 1.5 \times$ max continuous working voltage, 5 s, $\Delta R \leq \pm 0.2\%R$
Moisture Resistance	MIL-Std-202 Method 106, $\Delta R \leq \pm 0.4\%R$
Thermal Shock	MIL-Std-202 Method 107, Condition C, $\Delta R \leq \pm 0.25\%R$
Dielectric Withstanding Voltage	1,000 VDC
Insulation Resistance	$\geq 10G\Omega$ min
Substrate	96% Al ₂ O ₃ ceramic
Resistance Paste	Ruthenium-based, fired at 850°C
Coating	Epoxy resin / high-temp silicone, etc.
Lead Material	Anti-oxidation nickel-plated copper wire
Cap Material	Anti-oxidation nickel-plated copper cap

APPLICATIONS

- HV Measurement
- Power Supplies
- Medical
- Electrostatic
- Smart Grid Sensing
- X-Ray
- Motor Control
- Instrumentation

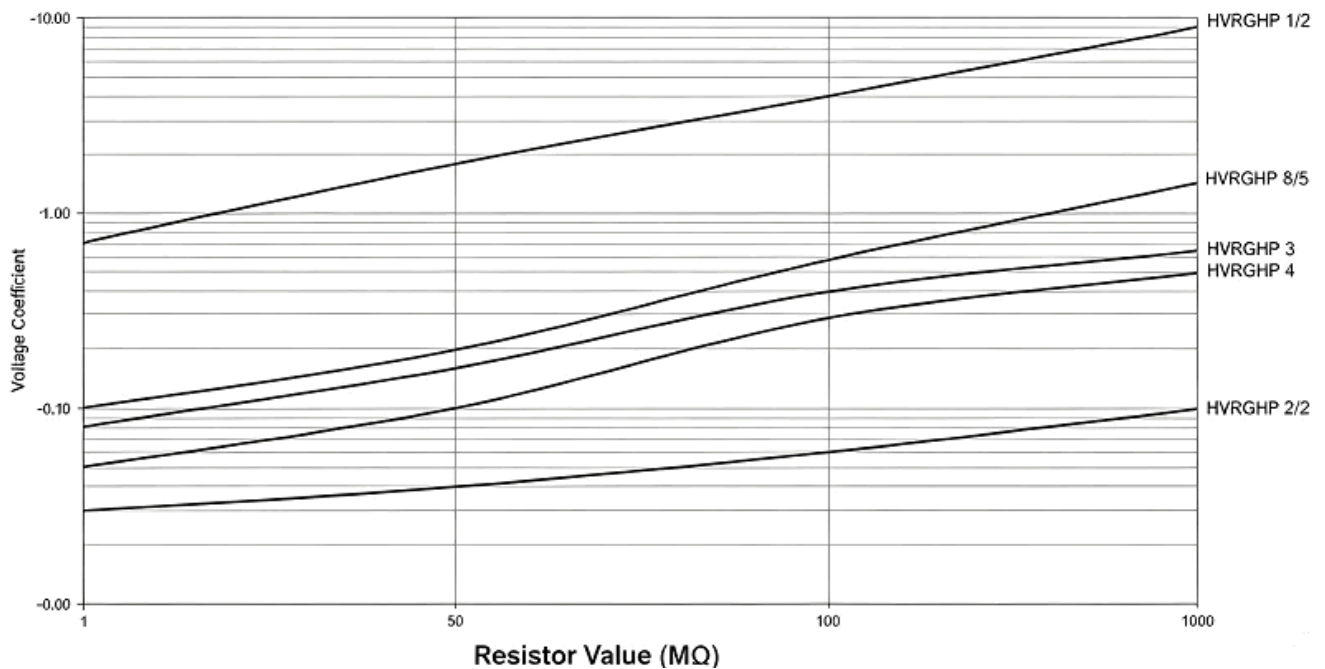
HVR-GHP Series High Voltage Thick Film Planar Resistors

POWER DERATING CURVE



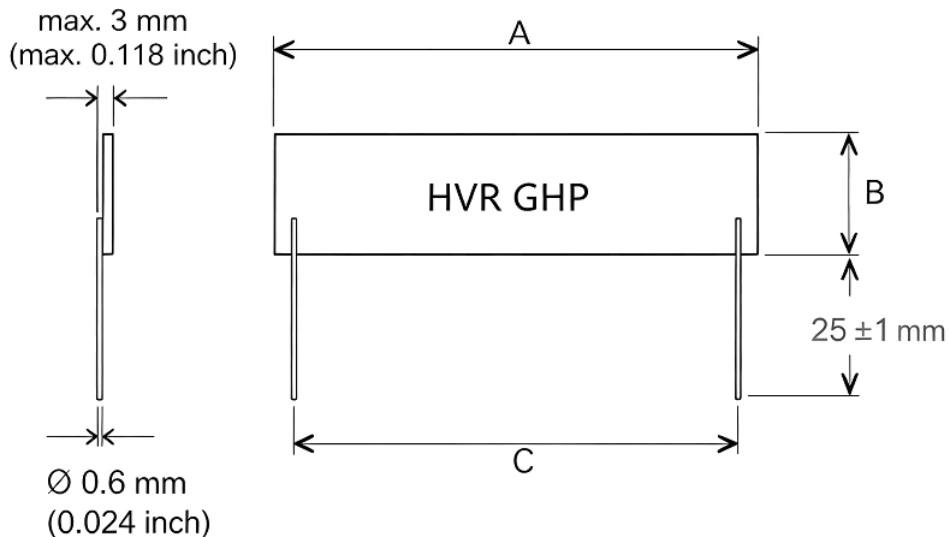
Rated power is 100% up to 85 °C, then derates linearly to 0% at 175 °C.

TYPICAL VOLTAGE COEFFICIENT



HVR-GHP Series High Voltage Thick Film Planar Resistors

DIMENSIONS



Axial lead configuration available upon request.

Custom sizes available: any ceramic substrate dimensions can be produced to order, replicating your current brand's outline 1:1.
MOQ only 100 pcs.

STANDARD PART NUMBER

Part Number	Watt	Max Voltage (V)	Length A (mm)	Width B (mm)	Lead Spacing C (mm)
HVRGHP1/2	0.50	4,000	13.60	4.50	10.20
HVRGHP5/5	0.65	6,000	17.85	4.50	15.24
HVRGHP8/5	1.60	8,000	25.90	6.30	22.90
HVRGHP3	3.00	12,000	38.70	7.50	35.50
HVRGHP4	4.00	15,000	51.30	7.50	48.20
HVRGHP2/2	5.00	24,000	51.30	14.20	48.20
HVRGHP4.25	1.00	8,000	25.40	4.00	22.90
HVRGHP4.38	1.50	10,000	38.00	4.00	35.70
HVRGHP5.13	1.00	5,000	12.70	5.00	10.20
HVRGHP5.51	2.00	20,000	50.80	5.00	48.30
HVRGHP10.25	2.00	10,000	25.40	10.00	22.90
HVRGHP10.51	3.00	30,000	50.80	10.00	48.30
HVRGHP15.38	3.00	15,000	38.00	15.00	35.70
HVRGHP15.51	4.50	30,000	50.80	15.00	48.30
HVRGHP15.76	5.50	35,000	76.20	15.00	73.40
HVRGHP25.99	10.00	35,000	101.60	24.00	98.60