

# PRECISION BULK METAL® FOIL TECHNOLOGY


## H Series

Hermetically Sealed Resistors, Metrology/Laboratory

### FEATURES

- VH102K and VH202K Series Nominal Temperature Coefficient of Resistance: -0.3ppm/°C (0°C to +25°C); +0.3ppm/°C (+25°C to +60°C) -1.0ppm/°C (-55°C to +25°C); +1.0ppm/°C (+25°C to +125°C)
- VHS102 and VHP202 Series Nominal Temperature Coefficient of Resistance: +0.6ppm/°C (0°C to +25°C); -0.6ppm/°C (+25°C to +60°C) +2.2ppm/°C (-55°C to +25°C); -1.8ppm/°C (+25°C to +125°C)
- Selected TCR Tracking: to 0.5ppm/°C (special)
- Shelf Life Stability: ±5ppm maximum for 1 year, ±10ppm maximum for 3 years

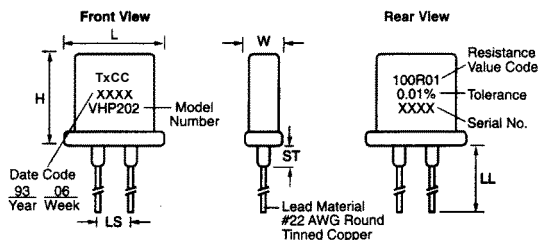
- Load Life Stability: ±150ppm MaxΔR (2,000 hrs at rated power)
- Resistance Tolerance (Initial Resistance Accuracy): ±0.001% tightest to ±1.0% loosest (depends on resistor value)
- Resistance Range: 0.5Ω to 250KΩ
- Current Noise: 0.010 μV (RMS) / Volt of Applied Voltage
- Thermal EMF: 0.1 μV / °C Maximum; 0.05 μV / °C Typical; 1 μV / Watt
- Rise/Decay Time: 1.0 Nanosecond @ 1KΩ

	Model	Value Range	Max Voltage	Power Rating	Dimensions	Standard Resistance Tolerance%	
						Tightest	Loosest
	VH102K*†	30 to 250K 20 to <30 10 to <20	300	@+70°C      @125°C 0.6W          0.3W	W: 0.185 Max L: 0.435 Max H: 0.430 Max ST: 0.095 Min LL: 1.000 ±0.125 LS: 0.150 ±0.010	±0.005	±1.0
	VHS102†	5 to <10 1 to <5		> 100K 0.4W          0.2W		±0.02	±1.0
	VH202K*‡  VHP202‡	1K to 250K 500Ω to <1K 50Ω to <500Ω 30Ω to <50Ω 20Ω to <30Ω 10Ω to <20Ω 5Ω to <10Ω		@ +25°C  5 to 100K 0.3W  >100K to 150K 0.2W		±0.05	±1.0

\* Maximum Resistance - 100K

† RTV Filled

‡ Oil Filled



We can supply the VHS102 and VHP202 to 250K



RoHS\*  
COMPLIANT