



# H Series

Hermetically Sealed Resistors, Metrology/Laboratory



RoHS  
COMPLIANT

**Temperature Coefficients** from -55 C to +125 C with 25 C as reference.

•VH102K and VH202K Series TCR

Resistance value	80 Ω to 100KΩ	50Ω to 80Ω	1Ω to 50Ω
TCR in ppm /°C	±1±2.5	±1±3.5	±1±4.5

•VHS102 and VHP202 Series TCR

Resistance value	80 Ω to 150KΩ	50Ω to 80Ω	1Ω to 50Ω
TCR in ppm /°C	±2±2.5	±2±3.5	±2±4.5

•Selected TCR Tracking: to 0.5ppm/ C (special).

**Stability:**

•Load Life Stability:

For VHP202 and VH202K: ± 20 ppm Max ΔR (2,000 hrs at rated power and 25°C).

For VH102K and VHS102: ± 250 ppm Max ΔR (2,000 hrs at rated power and 125°C).

•Shelf Life Stability:

For VHP202 and VH202K: ± 2 ppm maximum for at least 6 years.

For VH102K and VHS102: ± 10ppm maximum ΔR after 3 years.

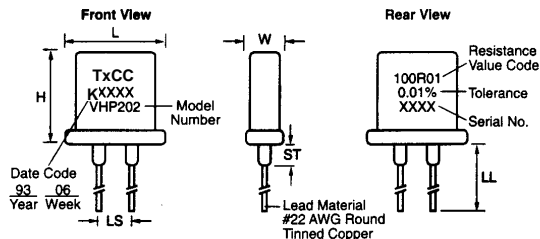
Model	Resistance [Ω]		Power Rating	Max. Voltage
	Range	Tightest Tolerance Available [%]		
VH102K*†	30 to 150K	±0.005	@+70°C @125°C	√P X R Up to 300 volts
	20Ω to <30Ω	±0.01	5Ω to 100KΩ	
	10Ω to <20Ω	±0.05	0.6 W 0.3 W	
VHS102‡	5Ω to <10Ω	±0.10	>100KΩ	
	1Ω to <5Ω	±0.25	0.4 W 0.2 W	
	1K to 150K	±0.001	@ +25°C	
VH202K*‡	500Ω to <1K	±0.0025	5Ω to 100KΩ 0.3 W	
	50Ω to <500Ω	±0.005		
	30Ω to <50Ω	±0.01		
VHP202‡	20Ω to <30Ω	±0.02	>100KΩ to 150KΩ 0.2 W	
	10Ω to <20Ω	±0.05		
	5Ω to <10Ω	±0.1		
	1K to 150K	±0.001		



\* Maximum Resistance - 100K

† RTV Filled

‡ Oil Filled



### DIMENSIONS [inches]

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

**For greater or lesser ohmic values, or other special parameters please contact Texas Components' Application Engineering**