

High Resistance Hi-Meg Hermetic Resistors

Hermetic Lead to a High Ohmic Resistance Values

▶ Preview

Token Hi-Meg Hermetically Sealed Resistors are designed for use in electrometer circuits where a high order of performance is required an extended period of time under adverse environmental conditions.

The RH1 metal glaze resistor is disclosed as being encapsulated in a glass tube, the enclosure being hermetically sealed to conductive caps mounted on the resistor ends. The metal glaze film of the resistance path of the resistor is protected from thermal damage during heat sealing by spacing the resistance path from the conductive caps and providing an electrical path there between in the form of an extended termination.



By being vacuum sealed in a glass envelope with its resistance glaze glass characteristic, these high resistance resistors are suitable for ultra-high vacuum applications, micro current circuit measurement, and pulse load equipments.

These RH1 Series features a high degree of stability and accuracy, and operate at this high performance level for long-term stability. The Hi-Meg Hermetic RH1 Series conform to RoHS compliant and lead free.

For customized designs, tighter tolerances, non-standard technical requirements, or custom special applications, please contact our sales for more information.

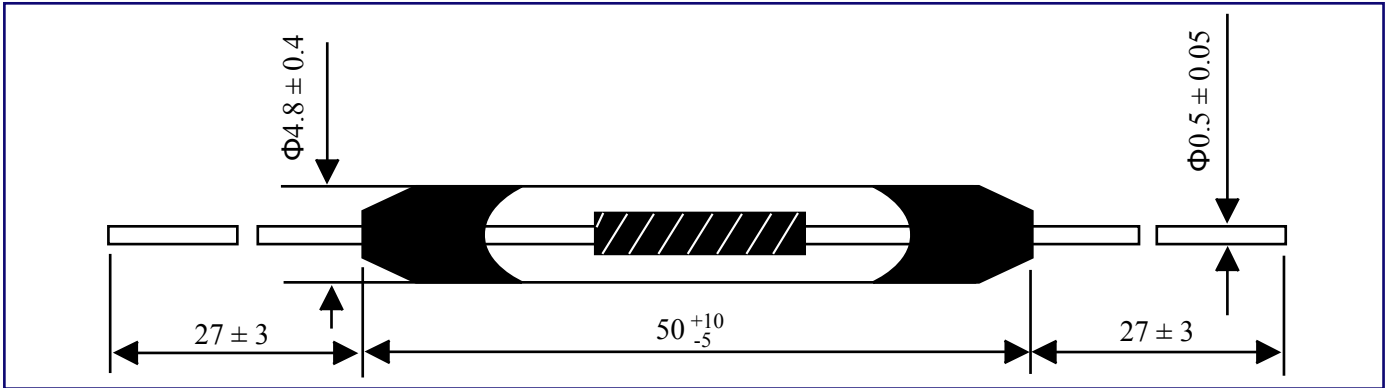
▶ Features

- Metal Glaze resistive elements
- Stability temperature and voltage
- Glass vacuum sealed hermetic resistors
- Resistance Tolerance (J±5%) (K±10%)
- High Resistance Range $1 \times 10^7 \sim 1 \times 10^{12}(\Omega)$

▶ Applications

- Ultra-High Vacuum Applications
- Surge Protection and Voltage Divider
- Mains Protection and Discharge Path Resistor
- Current Pulse Limiters and Pulse Load Equipments
- Micro Current Circuit Measurement, Medical Instrumentation

► Dimensions (Unit: mm)



► Specifications

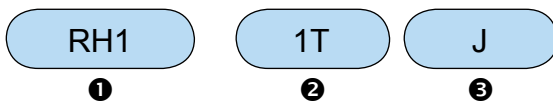
Resistance Range	$1 \times 10^7 \sim 1 \times 10^{12}(\Omega)$
Resistance Tolerance	(J $\pm 5\%$) (K $\pm 10\%$)
Operating Temperature	$-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$
Temperature Coefficient	$\pm 500\text{PPM}/^{\circ}\text{C}$ ($-55 \sim +125^{\circ}\text{C}$)
Damp Heat	$\Delta R \leq \pm (5\%R + 0.1\Omega)$
Working Voltage	1000V

► Cleaning & Handling

Hermetic Hi-Meg Resistors Cleaning & Handling

- It should be handled by the leads, unless gloves are worn.
- If cleaning should become necessary, use isopropyl alcohol and lightly wipe dry with lint free tissues.
- These glass encapsulated (hermetic) resistors with high resistance value is required extraordinary cleanliness.
- Fingerprints on the surface of the resistor will attract contaminants and moisture, which will cause a parallel resistance path, reducing the resistance value of the device.

► How to Order



❶ Part Number: RH1

❷ Resistance Value (Ω)

Code	Resistance Value (Ω)
1T	1T Ω
10T	10T Ω
100T	100T Ω

❸ Resistance Tolerance (%)

Code	Resistance Tolerance
J	$\pm 5\%$
K	$\pm 10\%$

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