

RH

超高Ultrahigh
TYPE

精密級超高抵抗器

Precision Ultrahigh Value Resistors

[RHA TYPE*1 : Hermetically sealed type]



RH超高抵抗器は微小電流検出などに使用される抵抗器として開発された超高抵抗器で従来品と比較し、その安定性において著しい改良がなされております。

The RH Ultrahigh type resistors are designed for use in the detection of trickle current and for other similar purposes.

Their operating stability by far excels that of conventional models.

■特長/FEATURES

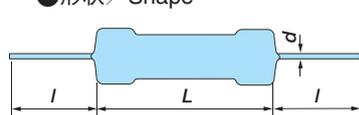
- 温度係数が小さい。
- 取り扱いやすい。
- 信頼性が高い。
- 経時変化、負荷寿命等に優れている。
- Small temperature coefficient.
- Easy to handle.
- High reliability.
- Minimized reduction in long-term stability and load life.

■特性/CHARACTERISTICS

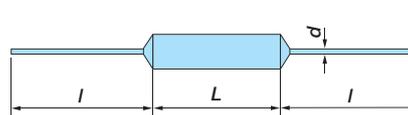
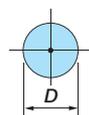
項目 Item	特性 Characteristics			試験方法 Test method
使用温度範囲 Operating temperature range	RH Type : $-35^{\circ}\text{C} \sim +70^{\circ}\text{C}$ RHA Type : $-30^{\circ}\text{C} \sim +70^{\circ}\text{C}$			
経時変化 Long-term stability	$\pm 1\%$			常温常湿 3000 時間 At normal temperature and humidity for 3000 h
高温経時変化 Reduction in long-term stability at high temperature	$-1\% \leq$			70 °C恒温槽中1000 時間 In thermostatic oven maintained at 70 °C for 1000 h
絶縁抵抗 Insulation resistance	$> 9.0 \times 10^{13} \Omega \text{ cm}$			40 °C, 90 % ~ 95 %RH, 1000 時間、500 V 40 °C, 90 % to 95 %RH, 1000 h at 500 V
電圧係数 Voltage coefficient	1 G Ω ~ 15 G Ω	15 G Ω ~ 7000 G Ω	7000 G Ω ~ 100 000 G Ω	DC 10 V ~ DC 100 V 測定 Measured at DC 10 V and DC 100 V
	$-20 \text{ ppm/V} \leq$	$-100 \text{ ppm/V} \leq$		
			$-500 \text{ ppm/V} \leq$	DC 100 V ~ DC 500 V 測定 / Measured at DC 100 V and DC 500 V

■製作範囲/PRODUCTION DATA

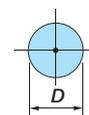
●形状/Shape



RH Ultrahigh type



RHA type (Hermetically sealed type)



形名 Model	温度係数 Temperature coefficient (ppm/°C)	抵抗値範囲 Range of resistance values		最高使用電圧 Max. working voltage DC(kV)	雷インパルス電圧 Lightning impuls voltage (kV) 1.2 $\mu\text{s}/50 \mu\text{s}$	寸法 Dimensions (mm) 〔カッコ内はRHAタイプ/(RHA)type〕				抵抗値許容差 Resistance tolerance (%)
		最小Min. (G Ω)	最大Max. (G Ω)			L	D	l	d	
RH1/4HVS	± 400	1	5	0.75	1.5	9 \pm 1	3 \pm 1	38 \pm 3	0.6 \pm 0.05	± 1 (F) ± 2 (G) ≤ 1 T Ω ± 5 (J) ± 10 (K) ≤ 100 T Ω
RH1HVS (RHA2S)	± 200	10	15	2	4	14.5 \pm 1 (14 \pm 0.5)	4.5 \pm 1 (5.1 \pm 0.2)	38 \pm 3	0.8 \pm 0.05	
	± 400	15	50							
RH2HVS (RHA3S)	± 200	10	100	5	10	26.5 \pm 1 (27 \pm 0.5)	5.5 \pm 1 (6.5 \pm 0.2)	38 \pm 3	1 \pm 0.05	
	± 400	100	300							
	± 1000	300	600							
RH3HVS (RHA5S)	± 1500	600	3000	10	20	42 \pm 2 (42 \pm 0.5)	5.5 \pm 1 (6.5 \pm 0.2)	38 \pm 3	1 \pm 0.05	
	± 200	10	100							
	± 400	100	600							
	± 1000	600	1000							
	± 1500	1000	10 000							
	± 2000	10 000	100 000							

注) *1 RHAタイプは、RH超高タイプの耐湿性、経時変化をさらに改良し信頼性を高めた抵抗器です。

NOTICE: *1 The RHA type as an improved version of the RH type Ultrahigh Value Resistor is highly resistant to humidity, protected against a long-term stability, and offers increased reliability.