

# RH

## Ultrahigh TYPE

# Precision Ultrahigh Value Resistors

{ RHA<sub>TYPE</sub> : Hermetically sealed type }



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.

### FEATURES

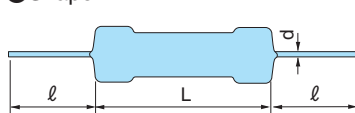
- Small temperature coefficient.
- Easy to handle.
- High reliability.
- Minimized reduction in long-term stability and load life.

### CHARACTERISTICS

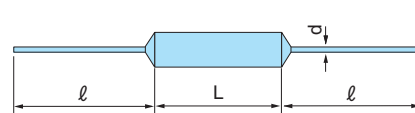
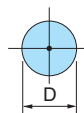
Item	Characteristics			Test method
Operating temperature range	RH Type: $-35^{\circ}\text{C}\sim+70^{\circ}\text{C}$ RHA Type: $-30^{\circ}\text{C}\sim+70^{\circ}\text{C}$			
Long-term stability	$\pm 1\%$			At normal temperature and humidity for 3,000hr.
Reduction in long-term stability at high temperature	$-1\%\leq$			In thermostatic oven maintained at $70^{\circ}\text{C}$ for 1,000hr
Insulation resistance	$>9.0\times 10^{13}\Omega\text{cm}$			$40^{\circ}\text{C}$ , 90~95%RH, 1,000hr, at 500V
Voltage coefficient	10G $\Omega$ ~15G $\Omega$	15G $\Omega$ ~7000G $\Omega$	7000G $\Omega$ ~10000G $\Omega$	Measured at 10V and 100V
	$-20\text{ppm}/\text{V}\leq$	$-100\text{ppm}/\text{V}\leq$	$-500\text{ppm}/\text{V}\leq$	Measured at 100V and 500V

### PRODUCTION DATA

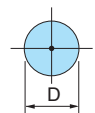
#### ● Shape



RH Ultrahigh type



RHA Type (Hermetically sealed type)



Type	Temperature coefficient (ppm/ $^{\circ}\text{C}$ )	Range of resistance values		Max. working voltage DC (kV)	Impulse voltage (kV) $1.2\times 50\mu\text{sec}$	Dimensions (mm) (RHA)type				Resistance tolerance (%)
		Min. (G $\Omega$ )	Max. (G $\Omega$ )			L	D	$\ell$	d	
RH1/4HVS	$\pm 400$	1	5	0.75	1.5	$9\pm 1$	$3\pm 1$	$38\pm 3$	$0.6\pm 0.05$	$\pm 1(\text{F})$ $\pm 2(\text{G})$ $\leq 1\text{T}\Omega$  $\pm 5(\text{J})$ $\pm 10(\text{K})$ $\leq 10\text{T}\Omega$
RH1HVS (RHA2S)	$\pm 200$	10	15	2	4	$14.5\pm 1$ ( $14\pm 0.5$ )	$4.5\pm 1$ ( $5.1\pm 0.2$ )	$38\pm 3$	$0.8\pm 0.05$	
	$\pm 400$	15	50							
RH2HVS (RHA3S)	$\pm 200$	10	100	5	10	$26.5\pm 1$ ( $27\pm 0.5$ )	$5.5\pm 1$ ( $6.5\pm 0.2$ )	$38\pm 3$	$1\pm 0.05$	
	$\pm 400$	100	300							
	$\pm 1000$	300	600							
RH3HVS (RHA5S)	$\pm 200$	10	100	10	20	$42\pm 2$ ( $42\pm 0.5$ )	$5.5\pm 1$ ( $6.5\pm 0.2$ )	$38\pm 3$	$1\pm 0.05$	
	$\pm 400$	100	600							
	$\pm 1000$	600	1000							
	$\pm 1500$	1000	10000							

NOTICE:※ 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.