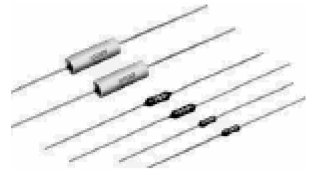
Ultra High Value Resistors

The content of this specification may change without notification 11/12/08

RoHS COMPLIANT 2002/95/EC

RHA Series - Resistance Range Up To 10 Trillion Ohm at DC 10KV

Custom solutions are available.



HOW TO ORDER

RHA L 100G D P

- **P** — **Bulk Packing**
- **D** — **Resistance Torrance**
  - **F = + 1%**
  - G = + 2%
  - J = + 5%
  - K = + 10%
- **100G** — **Resistance Value**
- **L** — **TCR**
  - L = 200 PPM
  - O = 400 PPM
  - S = 1000 PPM
  - T = 1500 PPM
- **RHA** — **RHA Series**
  - Power Type High Voltage Resistor
  - RHA1S, RHA2S, RHA3S, RHA5S

FEATURES

- Low temperature coefficient.
- Hermetically Sealed.
- Excellent performance in long-term stability and load life

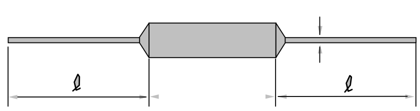
APPLICATIONS

The RHA 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.

CHARACTERISTICS

Item	Characteristics			Test method
Operating temperature range	RHA Type: -35^0 C ~+ 70^0 C			
Long-term stability	1%			At normal temperature and humidity for10,000hr.
Reduction in long-term stability at high temperature	1% <			In thermostatic oven at 70ᵕ C for 1,000hr
Insulation resistance	9.0 10^{13} cm			40ᵕC, 90 95%RH, 1,000hr, at 500V
Voltage coefficient	10GΩ 15GΩ	15GΩ 7000GΩ	7000GΩ 10000GΩ	Measured at 10V and 100V
	0.002%/V	0.01%/V		
			0.05%/V	Measured at 100V and 500V

PRODUCTION DATA



RHA Type (Hermetically sealed type)

Type	Temperature coefficient	Range of resistance values Min. (GΩ)	Max. (G Ω)	Max. working voltage DC (kV)	Impulse voltage (kV) 1.2 x 50 µ sec	Dimensions (mm) (RHA)type L	D	ℓ	d	Resistance tolerance (%)
RHA1S	400	1	5	0.75	1.5	9 1	3 1	38 3	0.6 0.05	1(F) 2(G) ≤ 1TΩ 5 (J) 10(K) ≤10TΩ
RHA2S	200	10	15	2	4	14.5 1 (14 0.5)	(5.1 0.2)	38 3	0.8 0.05	
	400	15	50							
RHA3S	200	10	100	5	10	26.5 1 (27 0.5)	5.5 1 (6.5 0.2)	38 3	1 0.05	
	400	100	300							
	1000	300	600							
	1500	600	3000							
RHA5S	200	10	100	10	20	42 2 (42 0.5)	5.5 1 (6.5 0.2)	38 3	1 0.05	
	400	100	600							
	1000	600	1000							
	1500	1000	10000							