R210A

Reference resistor

BATEMIKA measurement solutions



Highlights

- Precise source of reference resistance
- Excellent short-term and long-term stability
- Tolerance to nominal value within 0.01%
- Reference value and temperature coefficient measured and specified for each unit
- Standard and custom values available
- No thermal stabilization required
- Compact size and low weight
- Application as external standard to eliminate internal drift errors in thermometer readouts
- Application as calibration transfer standard
- Application as check standard

Specifications Summary

Reference resistor	
Resistor element	Vishay VHP101 hermetically-sealed foil resistor
Resistor connection type	4 wire
Cable termination	Banana plug
Standard values	25 Ω, 50 Ω, 80.306 Ω, 100 Ω, 138.51 Ω, 200 Ω, 400 Ω,
	1kΩ, 2 kΩ, 5 kΩ, 10 kΩ, 20 kΩ, 40 kΩ (normally on stock*)
Any custom value	25 Ω to 100 k Ω (custom order with longer lead times*)
Tolerance from nominal value	0.01%
Stability	< ±2 ppm/year typical, ±5 ppm/year max**
Temperature coefficient	< ±0.3 ppm/°C typical, ±0.5 ppm/°C max
	actual value of temperature coefficient at 23 °C specified
Operating temperature	10 °C to 36 °C
Power dissipation	300 mW max, less than 5 mW recommended
Connection cable length	1 m
External dimensions (W x H x D)	55 x 25 x 85 mm (excluding cable)

^{*}Inquire the availability of stocked items at info@batemika.com. Lead time for out-of-stock or custom items is up to 50 weeks.

Ordering Information

Description	Order code
R210A Reference resistor	BH-B006
UT-ONE thermometer readouts***	

^{***} R210A Reference resistor is recommended accessory for UT-ONE thermometer readouts, but may also be used as a reference for any other resistance-measuring instrument.

^{**}Under laboratory conditions (low power, no thermal or mechanical shock)