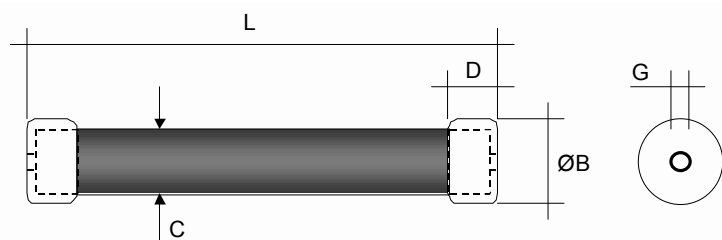


Ultra High Voltage Power Resistors Series 1000 Precision, Non-Inductive, Low TC

Ultra High Voltage Resistors Series 1000 combine proprietary non-inductive design with uniform voltage distribution to achieve low temperature coefficient, low voltage coefficients, high stability and increased operating voltages to 500 kV.

These Ultra High Voltage Resistors are designed to meet the demanding requirements of high voltage test systems, X-ray industrial systems, geophysical military instruments and HVDC power transmission lines.



**NON
INDUCTIVE**

Model	Wattage	Max. Operating Voltage	Dimensions in millimeters ± 3.00 [Dimensions in inches ± 0.12]				
			L (max.)	B	C	D	G
1000.150	150	200 kV	470 [18.50]	40.00 [1.58]	38.00 [1.50]	18.00 [0.71]	M8
1000.200	200	250 kV	600 [23.62]	40.00 [1.58]	38.00 [1.50]	18.00 [0.71]	M8
1000.250	250	300 kV	800 [31.50]	50.00 [1.97]	48.00 [1.89]	18.00 [0.71]	M8
1000.280	280	300 kV	780 [30.71]	62.00 [2.44]	60.00 [2.36]	18.00 [0.71]	M8
1000.300	300	400 kV	1000 [39.37]	50.00 [1.97]	48.00 [1.89]	18.00 [0.71]	M8
1000.350	350	400 kV	1025 [40.35]	62.00 [2.44]	60.00 [2.36]	18.00 [0.71]	M8
1000.400	400	500 kV	1320 [51.97]	62.00 [2.44]	60.00 [2.36]	18.00 [0.71]	M8

Characteristics

Resistance Values	from 1KΩ to as high as 100GΩ on all models (to 1TΩ on request)		
Tolerances	0.05%, 0.1%, 0.25%, 0.5%, 1%, 2%, 5%, 10% (0.05% avail. to 10G, 0.25% to 100G, other on request)		
Temperature Coefficients *	10, 15, 25, 50 and 100 ppm/°C (10 ppm/°C available to 10G, 25 ppm/°C to 100G, other on request)		
Operating Temperature	-55 .. +225°C	(extended temperature range to 350°C available)	
Insulation Resistance	> 10'000 MΩ	500 Volt 25 °C 75% relative humidity	
Dielectric Strength	> 1'000 Volt	25 °C 75% relative humidity	
Thermal Shock	Δ R/R < 0.1% typ., 0.20% max.	MIL Std. 202, method 107 Cond. C	IEC 68 - 2 -14
Overload	Δ R/R < 0.1% typ., 0.25% max.	1,5 x Pnom, 5 sec (do not exceed max. voltage)	
Moisture Resistance	Δ R/R < 0.1% typ., 0.25% max.	MIL Std. 202, method 106	IEC 68 - 2 - 3
Load Life	Δ R/R < 0.1% typ., 0.25% max.	1000 hours at rated power	IEC 115 - 1
Encapsulation	Silicone Conformal Coating	Core Material	Al ₂ O ₃ (96%)
Lead Material	Brass Caps (lug terminations avail.)	Resistor Material	Ruthenium Oxide
VCR	< -0.02 ppm/V for all models to 10 Gig (VCR = Voltage Coefficient of Resistance)		

* Temperature Coefficients referenced to 25°C, ΔR taken at +125°C

Derating Curve

