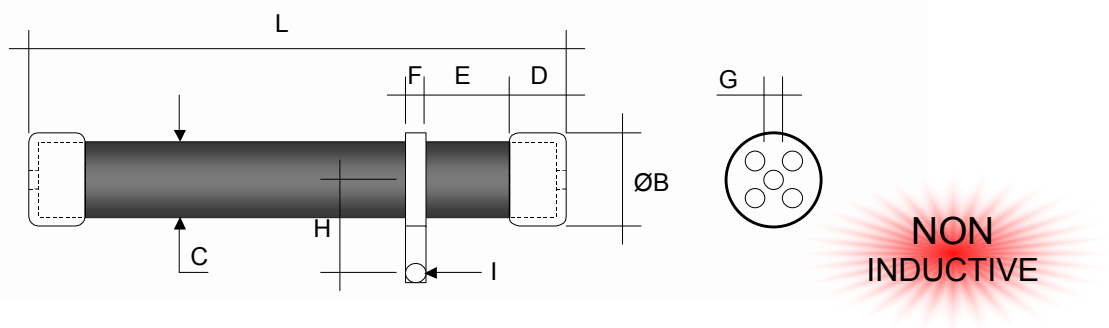
High Voltage Dividers Series 600
Precision, Non-Inductive, Low TC

High Voltage Dividers Series 600 combine proprietary non-inductive resistance system and design to achieve low ratio temperature coefficient, low voltage coefficients, tight ratio tolerances, high stability and increased high operating voltages.

These Precision High Voltage Dividers can provide important improvements in performance in many types of advanced electronic systems, including power supplies, radar systems, X-ray systems, analytical equipment and geophysical instruments.



Model	Wattage	Max. Operating Voltage	Dimensions in millimeters ± 1.00 [Dimensions in inches ± 0.04]								
			L (max.)	B	C	D	E	F	H	I	G
600.10	10.00	30'000	81.00 [3.19]	14.00 [0.55]	13.50 [0.53]	10.00 [0.40]	6.50 [0.26]	6.00 [0.24]	28.00 [1.10]	3.20 [0.26]	M4
600.20	15.00	70'000	156.00 [6.14]	14.00 [0.55]	13.50 [0.53]	10.00 [0.40]	6.50 [0.26]	6.00 [0.24]	28.00 [1.10]	3.20 [0.26]	M4
600.100	75.00	120'000	308.00 [12.12]	31.50 [1.24]	30.50 [1.20]	17.00 [0.67]	40.00 [1.58]	6.00 [0.24]	36.00 [1.42]	3.20 [0.26]	M8

Characteristics

Resistance Values	from 1KΩ to as high as 100GΩ on all models (to 1TΩ on request)		
Ratios	from 1:100 to 1:10'000, other on request		
Absolute Tolerances	0.05%, 0.1%, 0.25%, 0.5%, 1%, 2%, 5% (0.05% avail. to 10G, 0.25% to 100G, other on request)		
Ratio Tolerances	0.05%, 0.1%, 0.25%, 0.5%, 1% (other on request)		
Absolute Temp. Coeff. *	5, 10, 15, 25, 50 and 100 ppm/°C (10 ppm/°C available to 10G, 25 ppm/°C to 100G, other on request)		
Ratio Temp. Coeff. *	5, 10, 15, 25 and 50 ppm/°C		
Operating Temperature	-55 .. +175°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_2O_3 (96%)
Lead Material	Brass Caps (lug terminations avail.)	Resistor Material	Ruthenium Oxide

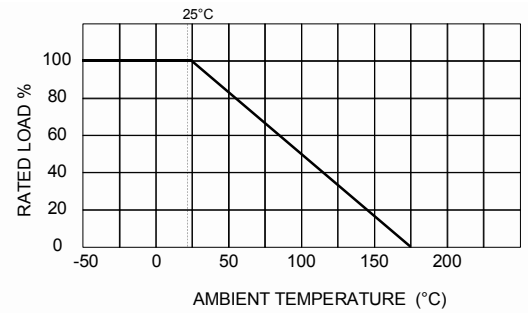
* Temperature Coefficients referenced to 25°C, ΔR taken at +125°C

Voltage Coefficients of Resistance

Type	Resistance Range	VCR (-ppm/V)*
600.10	1K .. 1G5	< 0.09
	1G5 .. 15G	< 0.18
600.20	1K .. 3G5	< 0.04
	3G5 .. 35G	< 0.08
600.100	1K .. 6G	< 0.02
	6G .. 60G	< 0.03

* typical values, contact factory for details

Derating Curve



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