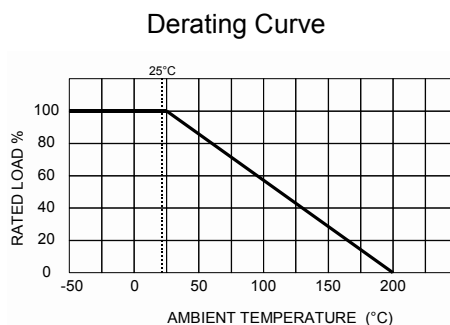
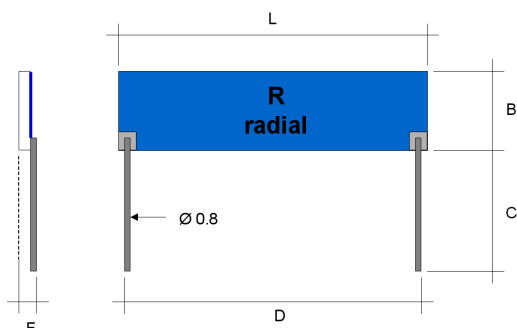


High Voltage Resistor Model 100.4S Precision, Non-Inductive, Low TC



Model	Wattage	Max. Continuous Oper. Voltage	Dimensions in millimeters ± 0.50 [Dimensions in inches ± 0.02]				
			L	B	C (max.)	D	E (max.)
100.4S	3.00	30'000	50.80 [2.00]	6.35 [0.25]	35.00 [1.40]	45.72 ± 0.2 [1.80 ± 0.08]	2.50 [0.10]

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% available to 10G, 0.25% to 100G, other on request)		
Temperature Coefficients *	5, 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 .. +200°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	Screen Printed Silicone	Core Material	Al ₂ O ₃ (96%)
Lead Material	Tinned Copper / SMD versions available	Resistor Material	Ruthenium Oxide
Voltage Coefficient of Resistance **	1K .. 600M	- 0.35 ppm/V max. as to MIL-Std-202, Method 309, 10 kV DC max.	
	600M .. 10G	- 0.70 ppm/V max. as to MIL-Std-202, Method 309, 10 kV DC max.	

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

** typical values, contact factory for details

Ordering Information

100.4S 200M F S

100.4S	= Model
200M	= Resistor Value (200 MΩ)
F	= Tolerance (± 1 %)
S	= Temperature Coefficient (± 100 ppm / °C)

Ohm Value Codes

1	= R
10 ³	= K
10 ⁶	= M
10 ⁹	= G

Example :
2M6 = 2.6 MΩ

Tolerance Codes

± 20 %	= M
± 10 %	= K
± 5 %	= J
± 2 %	= G
± 1 %	= F
± 0.5 %	= D
± 0.25 %	= C
± 0.1 %	= B
± 0.05 %	= A

Temperature Coefficient Codes

± 100 ppm / °C	= S
± 50 ppm / °C	= F
± 25 ppm / °C	= E
± 15 ppm / °C	= A
± 10 ppm / °C	= T
± 5 ppm / °C	= U