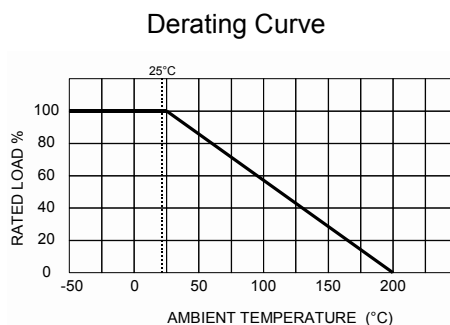
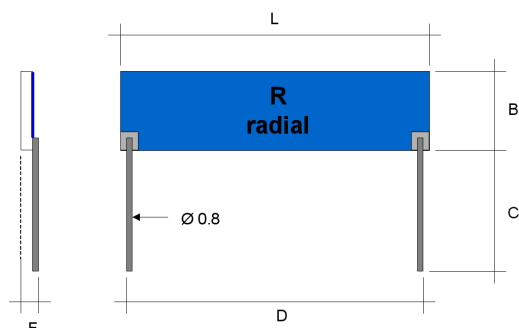


## High Voltage Resistor Model 100.4S Precision, Non-Inductive, Low TC



Model	Wattage	Max. Continuous Oper. Voltage	Dimensions in millimeters $\pm 0.50$ [Dimensions in inches $\pm 0.02$ ]				
			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 $\pm 0.2$ [1.80 $\pm 0.08$ ]	2.50 [0.10]

### Characteristics

Resistance Values	from 1K $\Omega$ to as high as 100G $\Omega$ on all models (to 1T $\Omega$ 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/ $^{\circ}$ C (10 ppm/ $^{\circ}$ C available to 10G, 25 ppm/ $^{\circ}$ C to 100G, other on request)		
Operating Temperature	-55 .. +200 $^{\circ}$ C	(extended temperature range to 350 $^{\circ}$ C available)	
Insulation Resistance	> 10'000 M $\Omega$	500 Volt 25 $^{\circ}$ C 75% relative humidity	
Dielectric Strength	> 1'000 Volt	25 $^{\circ}$ C 75% relative humidity	
Thermal Shock	$\Delta$ R/R < 0.1% typ., 0.20% max.	MIL Std. 202, method 107 Cond. C	IEC 68 - 2 - 14
Overload	$\Delta$ R/R < 0.1% typ., 0.25% max.	1,5 x Pnom, 5 sec (do not exceed max. voltage)	
Moisture Resistance	$\Delta$ R/R < 0.1% typ., 0.25% max.	MIL Std. 202, method 106	IEC 68 - 2 - 3
Load Life	$\Delta$ R/R < 0.1% typ., 0.25% max.	1000 hours at rated power	IEC 115 - 1
Encapsulation	Screen Printed Silicone	Core Material	Al <sub>2</sub> O <sub>3</sub> (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 $^{\circ}$ C,  $\Delta$ R taken at +125 $^{\circ}$ C.

\*\* typical values, contact factory for details

### Ordering Information

100.4S 200M F S

100.4S	= Model
200M	= Resistor Value ( 200 M $\Omega$ )
F	= Tolerance ( $\pm 1$ % )
S	= Temperature Coefficient ( $\pm 100$ ppm / $^{\circ}$ C )

#### Ohm Value Codes

1	= R
10 <sup>3</sup>	= K
10 <sup>6</sup>	= M
10 <sup>9</sup>	= G

Example :  
2M6 = 2.6 M $\Omega$

#### Tolerance Codes

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

#### Temperature Coefficient Codes

$\pm 100$ ppm / $^{\circ}$ C	= S
$\pm 50$ ppm / $^{\circ}$ C	= F
$\pm 25$ ppm / $^{\circ}$ C	= E
$\pm 15$ ppm / $^{\circ}$ C	= A
$\pm 10$ ppm / $^{\circ}$ C	= T
$\pm 5$ ppm / $^{\circ}$ C	= U