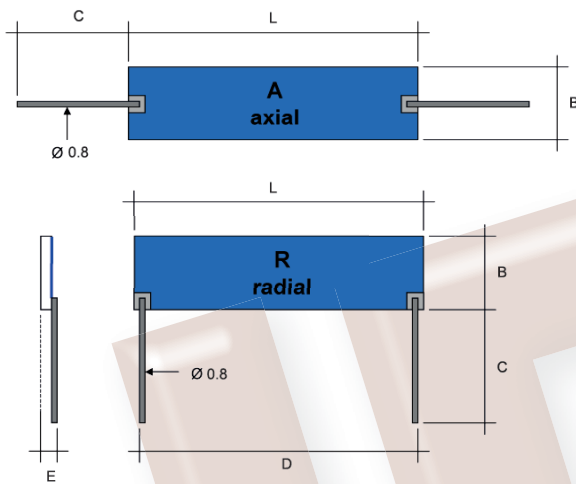
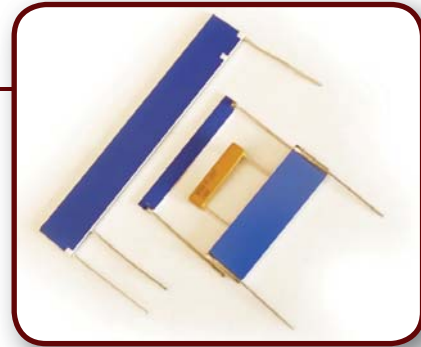


2000 HT SERIES

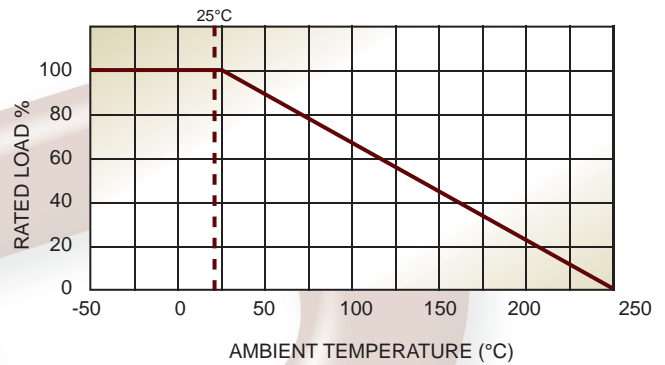
HIGH TEMPERATURE, HIGH VOLTAGE RESISTORS,
PRECISION, NON-INDUCTIVE, LOW TC

High Voltage Resistors 2000 HT Series combine proprietary non-inductive resistance system and design to achieve low temperature coefficient, low voltage coefficients, high stability and increased high operating voltages.

Precision High Voltage Resistors 2000 HT Series are designed to meet the demanding requirements of TWT power supplies, electron microscopes, X-ray systems, high resolution CRT displays and geophysical instruments.



Derating Curve



FEATURES

Resistance Values	from 1K0 to 10G, 2001 HT and 2002 HT; to 100G on other P/N		
Tolerances	0.1%, 0.25%, 0.5%, 1%, 2%, 5%, 10%		
Temperature Coefficients	15, 25, 50 and 100 ppm/°C (50 ppm/°C to 100G, other on request)		
Operating Temperature	-55 .. +250°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 P _{nom} , 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 /	Resistor Material	Ruthenium Oxide

NR *new resistance*
precision without limits

2000 HT SERIES

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P/N	Wattage	Max. Continuous Oper. Voltage	Dimensions in millimeters ± 0.50				
			L	B	C (max.)	D	E (max.)
2001 HT	1.00	5'000	12.70	5.08	10.00	10.16	2.00
2002 HT	2.50	11'000	25.40	7.62	35.00	22.86	2.50
2003 HT	3.30	20'000	38.10	12.70	35.00	35.56	2.50
2004 HT	4.50	30'000	50.80	15.24	35.00	48.26	2.50
2005 HT	6.50	45'000	76.20	15.24	35.00	73.66	3.00
2007 HT	9.00	60'000	101.60	15.24	35.00	99.06	3.00

VOLTAGE COEFFICIENTS OF RESISTANCE

Type	Resistance Range	VCR (- ppm/V)*
2001 HT	1K .. 250M	< 2.00
	250M .. 3G	< 3.70
2002 HT	1K .. 500M	< 1.00
	500M .. 7G	< 1.20
2003 HT	1K .. 1G	< 1.00
	1G .. 10G	< 1.20
2004 HT	1K .. 1G	< 1.00
	1G .. 20G	< 1.10
2005 HT	1K .. 1.5G	< 1.00
	1.5G .. 30G	< 1.10
2007 HT	1K .. 2G	< 0.90
	2G .. 40G	< 0.60

* typical values, for higher ohmic value contact the factory

TCR & TOLERANCE SYMBOLS

15 ppm	Y	0.1%	B
25 ppm	D	0.25%	C
50 ppm	C	0.5%	D
100 ppm	Z	1%	F
		2%	G
		5%	J
		10%	K

MARKING

P/N - ohmic value - tolerance - TCR (on the order specify A or R version)

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