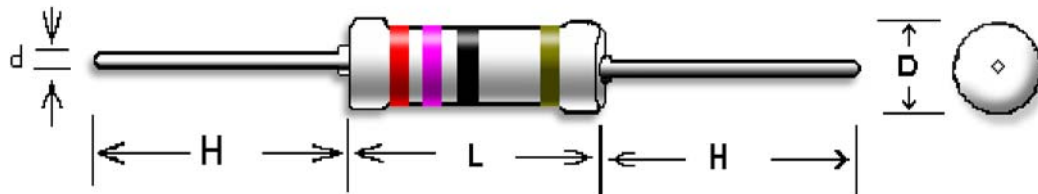


HTR - High Temperature Resistor

Features:

Special conductive film deposited on special ceramic rod. Stabilizing treatment makes it capable to perform under high temperature. Suitable for heating equipment, such as oven, coffee maker, toaster, electric iron, heater, etc.



Dimensions:

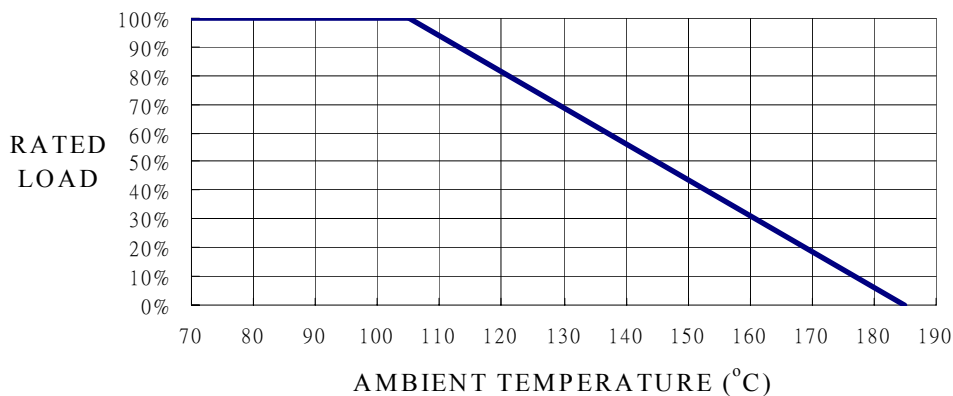
Type	Body Length (L , mm)	Body Diameter (D , mm)	Lead Wire Length (H , mm)	Lead Wire Diameter (d , mm)	Net Weight Per 1000Pcs
HTR25	6.2±0.5	2.7±0.2	26±3.0	0.55±0.03	220 Grams
HTR51	8.8±1.0	3.2±0.2	26±3.0	0.60±0.03	340 Grams
HTR51T	8.8±1.0	3.2±0.2	26±3.0	0.60±0.03	340 Grams

General Specifications:

Type	Power Rating At 105°C	Max. Working Voltage	Max. Overload Voltage	Min. Resistance	Max. Resistance	Resistance Tolerance	Standard Resistance Values
HTR25	1/4W	250V	500V	47Ω	470KΩ	±5%, 1%	E-24
HTR51	1/2W	300V	600V	47Ω	470KΩ	±5%, 1%	E-24
HTR51T	1/2W	300V	600V	47Ω	270KΩ	±5%, 1%	E-24, E-96

Special sizes, values, and specifications not listed available on special order.

POWER DERATING CURVE



Oct. 26, 1999

HTR - High Temperature Resistor

Technical Specifications:

Characteristics	Limits	
Dielectric Withstanding Voltage, VAC or DC	500	
Temperature Coefficient, PPM / °C	HTR25/ 51	≤120KΩ ±350 >120KΩ - 500
	HTR51T	≤150KΩ ±100 >150KΩ ±200
Operating Temperature Range, °C	-55~+185	
Insulation Resistance, MΩ	10 ⁴	
Voltage Coefficient, PPM / V	25	

Performance Specifications:

Test Characteristics	Test Conditions	Limit
Short Time Over Load	IEC 60115-1 4.13 5 seconds 2.5x rated voltage (not over max. overload voltage)	±(1%+0.05R)
Load Life In Humidity	IEC 60115-1 4.24 56 days at 40°C and 93% relative humidity	±5%
Load Life 1,000 hours	IEC 60115-1 4.25.1 Rated load 1.5 hours ON, 0.5 hours OFF, at 105°C	±5%
Resistance To Soldering Heat	IEC 60115-1 4.18 10 seconds at 260°C solder bath temperature	±(1%+0.05R)
Solderability	MIL-STD-202 Method 208 Solder area covered after 230±5°C/5±0.5 seconds w/ flux applied	95% Min.
Vibration	MIL-STD-202 Method 204 Six hours in each parallel and axial direction w/ a simple harmonic motion having an amplitude of 1.52mm and 10 to 20,000 Hz.	±(1%+0.05R)
Terminal Endurance	IEC 60115-1 4.25.3 1000 hours at 155°C without load	±(1%+0.05R)
Thermal Shock	IEC 60115-1 4.19 -55°C 30minutes, +155°C 30minutes, 5 cycles	±(1%+0.05R)

Ordering Information

Type	Tolerance	Temperature Coefficient	Resistance Value	Packaging	Special Request (Optional)
HTR25	J (5%) F(1%)	TK350	10K	TB (Tape/Box)	LV (Low value)

Oct. 26, 1999