

TO220 功率電阻

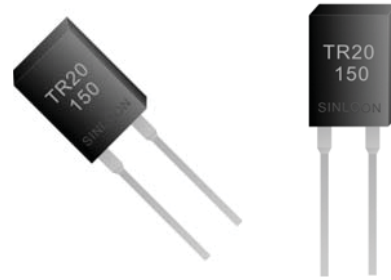
TR20 (20W)
TO-220 Power Resistor

Features:

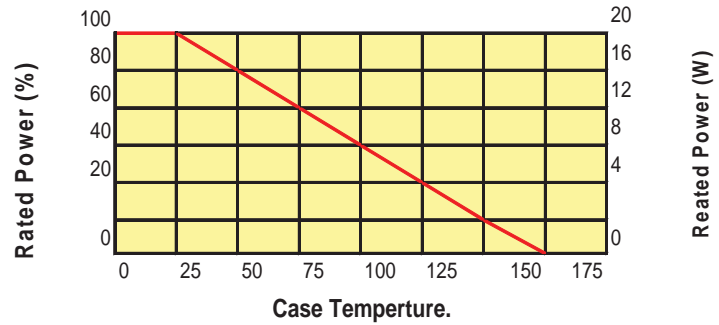
- ◆ 20 Watt at 25°C Case Temperature Heat Sink Mounted
- ◆ TO-220 Style Power Package
- ◆ Molded Case for Protection and Easy to Mount.
- ◆ Isolated Case.
- ◆ Non Inductive.

Applications:

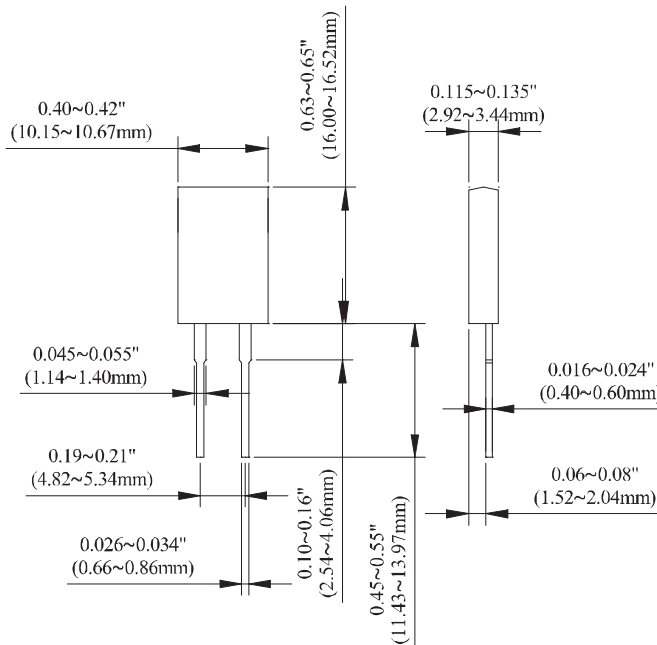
- ◆ High Speed Switching Power Supplies.
- ◆ Snubber Circuits.
- ◆ Load Resistor for Pulse Generators.
- ◆ Voltage Regulation.
- ◆ VHF Amplifiers.



Derating curve:



Dimension: TR20



ORDERING PROCEDURE:

Example: TR20JE15R0P

Type	Power:	Part No.	Tol.	T.C.R/°C	Resistance	Package
TO-220	20W	TR20	K = ±10%	B=±10ppm	R001=0.001Ω	TB = T/Box.
TO-220	25W	TR25	J = ±5%	C=±25ppm	R010=0.01Ω	B = Bulk
TO-220	30W	TR30	F = ±1%	D=±50ppm	R100=0.1Ω	R=Reel Type
TO-220	35W	TR35	D = ±0.5%	E=±100ppm	1R00=1Ω	P=Plastic Fistulous
TO-220	50W	TR50	C = ±0.25%	F=±200ppm	10R0=10Ω	
TR-247	100W	TR100	B = ±0.1%	G=±300ppm	100R=100Ω	



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Electrical Characteristics Specification

Resistance	Tolerance	TCR (ppm)	Packing
0.05Ω~1Ω	±5%, ±10%.	-----	Bulk
2Ω~5Ω	±1%, ±5%, ±10%.	±200ppm	Bulk
5Ω~10Ω	±1%, ±5%, ±10%.	±100, ±200ppm	Bulk
11Ω~10KΩ	±0.5, ±1%, ±5%, ±10%.	±5, ±100, ±200ppm	Bulk

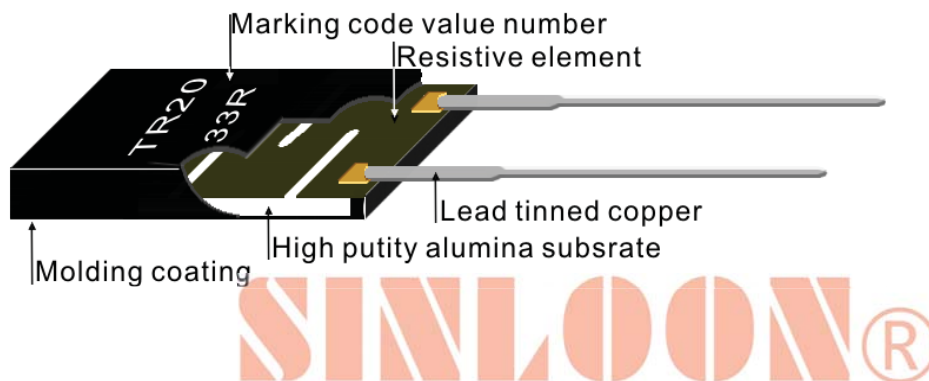
- ◆ Operating Voltage: 350V Max.
- ◆ Dielectric Strength: 1800VAC
- ◆ Insulation Resistance: 10GΩmin.
- ◆ Working Temperature Range: -65°C to +150°C
- ◆ Resistance Value < 1Ω is Available

Environmental Characteristics

Test Item	Specification	Test Method
Temperature Coefficient of Resistance	>10Ω ±50ppm/°C 1R ~ 10Ω ±100ppm/°C	Referenced to 25°C ΔR taken at +105°C
Short Time Overload	ΔR ±0.3%	2 times rated power with applied voltage not to exceed 1.5 times maximum continuous operating voltage for 5 seconds.
Load Life	ΔR ±1.0%	MIL-R-39009, 2,000 hours at rated power.
Humidity (Steady State)	ΔR ±0.5%	MIL-STD-202F, Method 103B, 40°C, 90-95 RH, RCWV 105 hours NO, 0.5 hours OFF, total 1000-1048 hours.
Thermal Shock	ΔR ±0.3%	MIL-STD-202, Method 107G, -65°C ~ 150°C cycle
Terminal Strength	ΔR ±0.2%	MIL-STD-202, Method 211, Cond. A (Pull Test) 2.4N
Vibration, High Frequency	ΔR ±0.2%	MIL-STD-202, Method 204, Cond. D.

- ◆ Lead Material: Tinned Copper
- ◆ Without a heat sink.
- ◆ Derating (Thermal Resistance): 100% @25°C to 0% @150°C.
- ◆ Without a Heat Sink, When in Free Air at 25°C, the TR20 is Rated for 3W.
- ◆ The Case Temperature is to be used for the Definition of the Applied Power Limit.
- ◆ The Case Temperature Measurement Must be Made with a Thermocouple Contacting the Center of the Component Mounted on the Designed Heat Sink.
- ◆ Thermal Grease Should be Applied Properly.

Construction



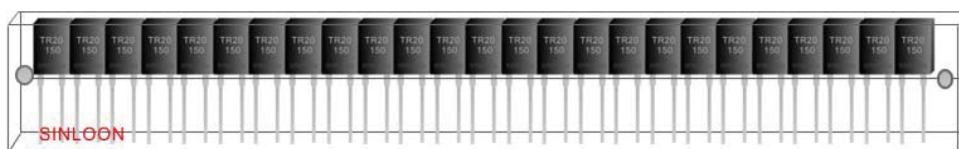
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**TR20 (20W)
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PACKING



Type:		Power	Fistulous	In Box	Carton
TO-220	TR20	20W	25 pcs	10 Fistulous	2.5K/Ctn
TO-220	TR25	25W	25 pcs	10 Fistulous	2.5K/Ctn
TO-220	TR30	30W	25 pcs	10 Fistulous	2.5K/Ctn
TO-220	TR35	35W	25 pcs	10 Fistulous	2.5K/Ctn
TO-220	TR50	50W	25 pcs	10 Fistulous	2.5K/Ctn
TO-247	TR100	100W	20 pcs	10 Fistulous	2K/Ctn



Plastic Fistulous :
25 Pcs
Size:
520x33x7.0mm

Inside Box 10 Plastic Fistulous
In box Size 561x83x72mm



Carton : 10 / In Box
Carton Size: 580x450x175mm



Brand Label: SINLOON®

