

電流傳感電阻 POWER RESISTORS-TR20 (MOLDED CASE)



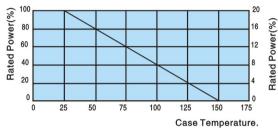


- 20 Watt at 25°C Case Temperature Heat Sink Mounted TO-220 Style Power Package
- Molded Case for Protection and Easy to Mount
- Isolated Case.
- Non Inductive.

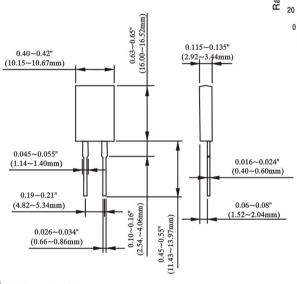


Applications:

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



Dimensions





Part Numbering

TR

20



В

D

5

1001

(1)

(2)

3

4

6

OProduct Type Product Type TO-220 Power Resistors @Power

Codes **Power Rating** 20 20 Watts

Resistance Tolerance Codes D ±0.5% F ±1% G ±2% J ±5% Κ ±10%

Code Type Т Tube В Bulk

©TCR

Codes	Туре	
D	±50PPM/°C	
Е	±100PPM/°C	
F	±200PPM/°C	
	No specified	
® Resistance		

® Resistance	
Codes	Type
0R10	0.1Ω
0100	10Ω
4700	470Ω
1001	1000Ω
1002	10000Ω



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Electrical Characteristics Specifications

Resistance Range	Resistance Tolerance	TCR(PPM/°C)
0.05 Ω ~1 Ω	± 5.00% ± 10.0%	_
2Ω~5Ω	± 1.00% ± 5.00% ± 10.0%	± 200
5Ω~10Ω	± 1.00% ± 5.00% ± 10.0%	± 100 ± 200
11Ω~10ΚΩ	± 0.50% ± 1.00% ± 5.00% ± 10.0%	±50 ±100 ±200

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

Environmental Characteristics

Test Item	Specification	Test Method
Temperature Coefficient of Resistance	10 Ω and above, ±50ppm/°C 1 Ω and 10 Ω ,(±100ppm)/°C	Referenced to 250C, ∆R taken at +1050C
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 105hours ON,0.5hours OFF, total 1000~1048 hours.
Thermal Shock	ΔR± 0.3%	MIL-STD-202, Method 107G. -65°C~150°C, 100 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.

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.