



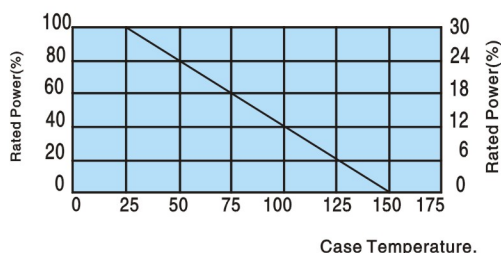
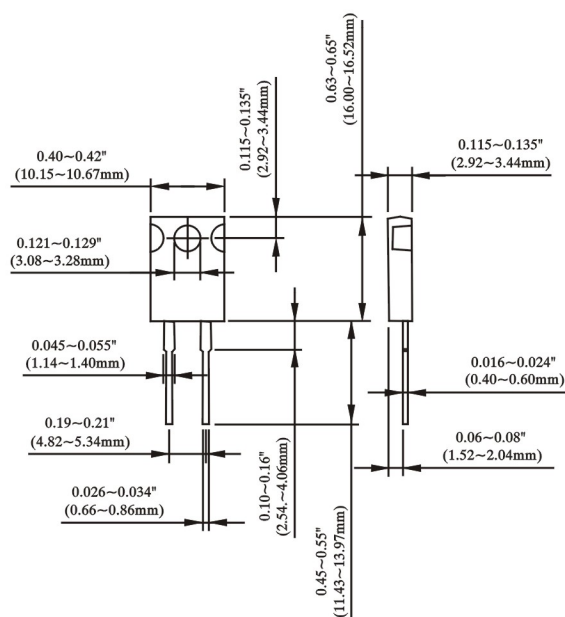
Features:

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

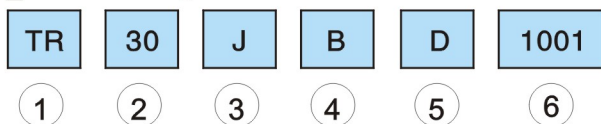
Applications:

- Gate Resistors in Power Supplies.
- Snubber Circuits.
- Load and Dumping Resistors in CRT Monitors.
- Terminal Resistance in RF Power Amplifiers.
- Voltage Regulation.
- Low Energy Pulse Loading.
- UPS

Dimensions:



Part Numbering



① Product Type

Product Type	
TR	TO-220 Power Resistors

② Power

Codes	Power Rating
30	30 Watts

③ Resistance Tolerance

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

④ Packaging

Code	Type
T	Tube
B	Bulk

⑤ TCR

Codes	Type
D	±50PPM/°C
E	±100PPM/°C
F	±200PPM/°C
-	No specified

⑥ Resistance

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

Electrical Characteristics Specifications

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

- Operating Voltage:350V Max.
- Dielectric Strength:1500VAC
- Insulation Resistance:10GΩ min.
- 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 and above, ± 50ppm/°C 1Ω and 10Ω,(± 100ppm)/°C	Referenced to 250C, Δ 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

Maximum Torque:0.9 N-m

When in Free Air at 25°C, the TR30 is Rated for 2.25W.

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.