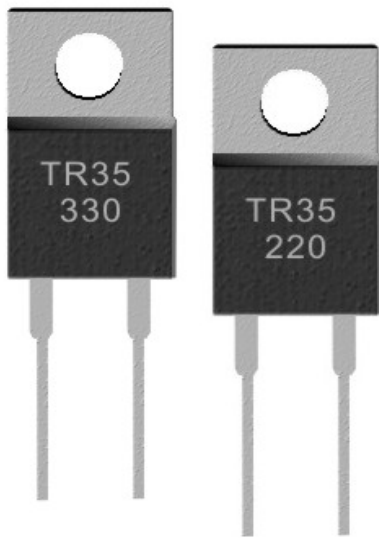


TO-220 Power Resistors- TR35



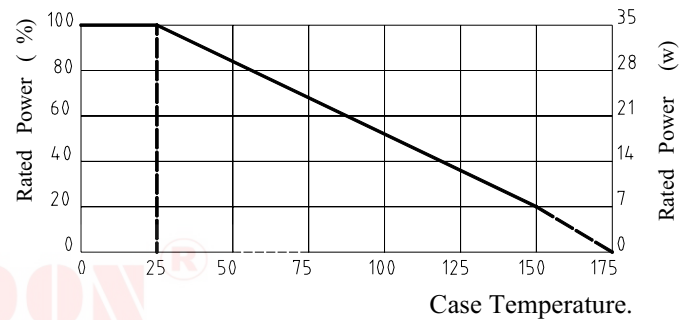
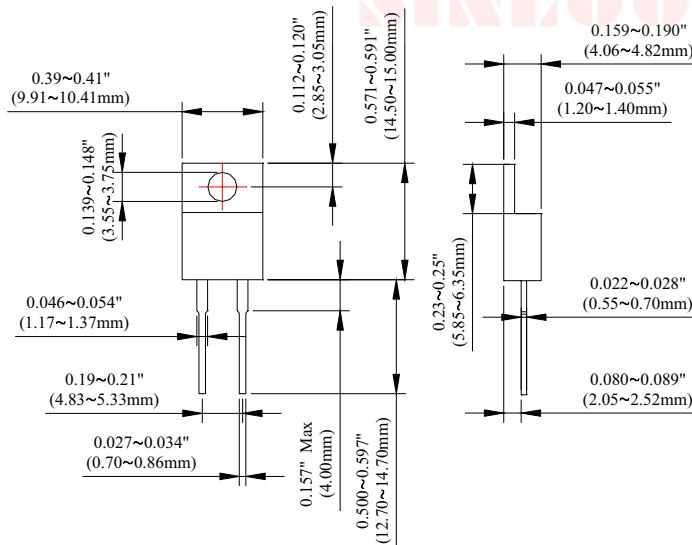
Features:

- 35 Watt @ 25°C Case Temperature Heat Sink Mounted.
- TO-220 Style Power Package.
- Single Screw Mounting to Heat Sink.
- Low Thermal Resistance to Heat Sink @ $R_{th} < 4.28 \text{ } ^\circ\text{K/W}$.
- Molded Case for Protection and Easy to Mount.
- Isolated Case.
- Non Inductive.

Applications:

- Switching Power Supplies.
- Snubbers Circuits.
- Automated Machine Controller.
- RF Power Amplifiers.
- Low Energy Pulse Loading.
- UPS.
- Voltage Regulation.

Dimensions:



Ordering Information:

TR 35 J T 1001

(1) (2) (3) (4) (5)

(1)Type: TR=TO-220 Power Resistors

(2)Power : 35=35 Watts

(3)Tolerance: D=0.5%, F=1%, G=2%, J=5%, K=10%

(4) Packaging style: T=Tube

(5) Resistance: 0R10=0.1Ω, 0100=10Ω,4700=470Ω, 1001 =1KΩ,1002=10KΩ

Electrical Characteristics Specifications:

| Resistance Range | Resistance Tolerance | TCR (PPM/°C) |
|------------------|----------------------------|--------------|
| 0.05Ω~10Ω | ±1.00% | ±100 |
| * 11Ω~10KΩ | ±2.00% ±5.00% ±10.0% | ±50 |

* Viking is Capable of Manufacturing the Following Options Based on Customer's Requirement:

- Operating Voltage:350V Max.
- Dielectric Strength: 1800VAC
- Insulation Resistance: 10GΩmin.
- Working Temperature Range:-55°C to +175°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+0.002Ω)/°C | Referenced to 25°C, ΔR taken at +105°C |
| Short Time Overload | ΔR± (0.3% + 0.01Ω) max. | 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% +0.01Ω). | MIL-R-39009, 2,000 hours at rated power. |
| Moisture Resistance | ΔR± (0.5% + 0.01Ω) max. | MIL-STD-202, Method 106, |
| Thermal Shock | ΔR± (0.3% + 0.01Ω) max. | MIL-STD-202, Method 107, Cond. F, |
| Terminal Strength | ΔR ± (0.2% +0.01Ω) max. | MIL-STD-202, Method 211, Cond. A (Pull Test) 2.4N, |
| Vibration, High Frequency | ΔR± (0.2% + 0.01Ω) max. | MIL-STD-202, Method 204, Cond. D, |

- Lead Material: Tinned Copper
- Maximum Torque: 0.9 N-m
- Derating (Thermal Resistance): 0.23W/°K (4.28°K/W)
- Without a Heat Sink, When in Free Air at 25°C, the TR35 is Rated for 2.50W.
- Derating for Temp. above 25°C is 0.02W/°K.
- 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.

