

TO-220 Power Resistors- 35 Watts

TO-220 Power Resistors – TR35 Series

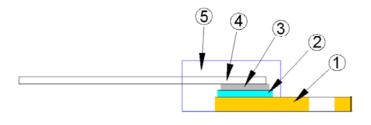


Features

- $-35 \mbox{ watts at } 25 \mbox{°C}$ case temperature heat sink mounted
- TO-220 style power package
- -Single screw mounting to heat sink
- -Molded case for protection and easy to mount
- -Electrically isolated case
- -Non-Inductive design

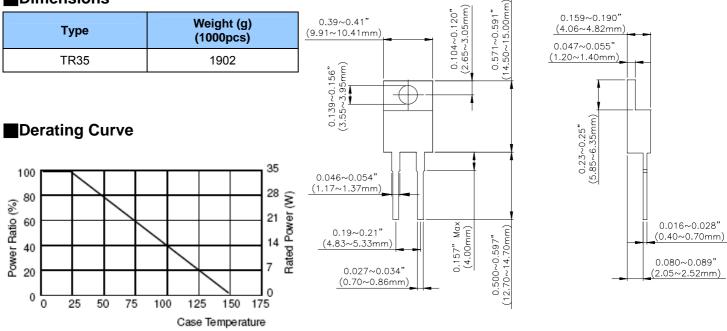
Applications

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



1	Flange	4	Lead
2	Alumina Substrate	5	Molding
3	Resistor Layer		

Dimensions



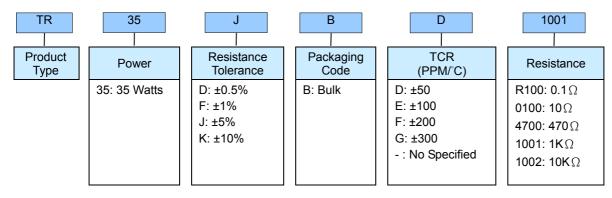
Construction

TR35 Series

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Part Numbering

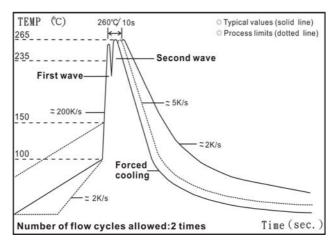


Electrical Characteristics Specifications

Item		TCR (PPM/°C)			
Туре	±0.5%	±1%	±5%	±10%	
			0.050	No Specified	
			±300		
TR35			±100 ±200		
		±50 ±100 ±200			

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

Soldering Condition



Wave Soldering (Flow Soldering)

(1) Time of wave soldering at maximum temperature point 260°C : 10s

(2) Time of soldering iron at maximum temperature point 410°C : 5s

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Environmental Characteristics

Item	Requirement	Test Method
Temperature Coefficient of Resistance (T.C.R.)	As Spec.	Referenced to 25°C, ΔR taken at +105°C
Short Time Overload	∆R±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%	2,000 hours at rated power
Damp Heat with Load	∆R±0.5%	40±2°C, 90~95% R.H., RCWV for 1000 hrs with 1.5 hrs "ON" and 0.5 hrs "OFF"
Solderability	90% min. coverage	245±5°C for 3 seconds
Thermal Shock	ΔR±0.3%	-65°C~150°C, 100 cycles
Terminal Strength	ΔR±0.2%	(Pull Test) 2.4N
Vibration, High Frequency	ΔR±0.2%	20g peak

Lead Material: Tinned Copper

Maximum Torque: 0.9 N-m

- Without a Heat Sink, When in Free Air at 25°C, the TR35 is Rated for 2.50W
- 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
- RCWV(Rated continuous working voltage)=√(P*R) or Max. Operating voltage whichever is lower.