TO-220 Power Resistors- 35 Watts



TO-220 Power Resistors - TR35 Series



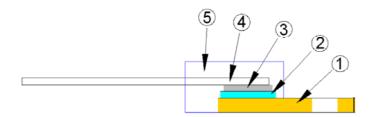
Features

- -35 watts at 25°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

Construction

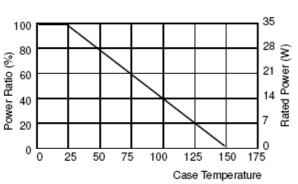


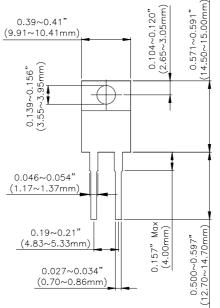
1	Flange	4	Lead
2	Alumina Substrate	(5)	Molding
3	Resistor Layer		

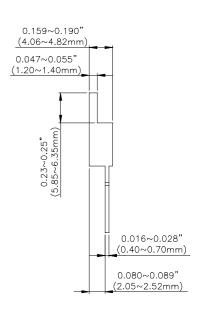
Dimensions

Туре	Weight (g) (1000pcs)
TR35	1902

■Derating Curve



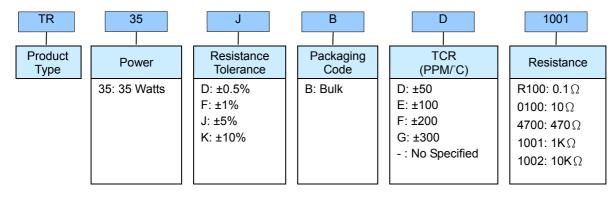




Wiking

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■Part Numbering



■ Electrical Characteristics Specifications

Item		TCR (PPM/°C)			
Туре	±0.5%	±1%	±5%	±10%	, ,
			0.05Ω -1Ω		No Specified
		>1Ω -3Ω			±300
TR35			±100 ±200		
	>10Ω –10ΚΩ				±50 ±100 ±200

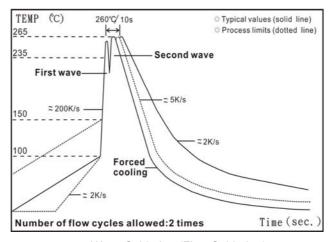
Operating Voltage: 350V Max.Dielectric Strength: 1800VAC

■ 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 $^{\circ}$ 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, ∆R 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%	2,000 hours at rated power	
Damp Heat with Load	ΔR±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.

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