

Data Sheet

Customer:

Product: POWER RESISTOR – TR35 Series

Size: TO-220

Issued Date: 30-Nov.-2017

Edition: Ver. 1

Record of change

Date	Ver.	Description	Page
30-Nov2017	1		

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TO-220 Power Resistor (TR35 Series)

Features

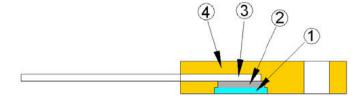
- -35 Watts at 25° C case temperature heat sink mounted
- To-220 style power package
- -Single screw mounting to heat sink
- -Molded case for protection and easy to mount
- -Electrically isolated case
- -Non-Inductive design

Applications

- -Switching Power Supplies
- Snubbers Circuit
- Automation Machine Controller
- Terminal Resistance in RF Power Amplifiers
- -Voltage Regulation
- -Low Energy Pulse Loading
- -UPS



■ Construction



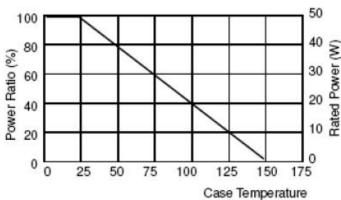
1	Alumina Substrate	3	Lead
2	Resistor Layer	4	Molding

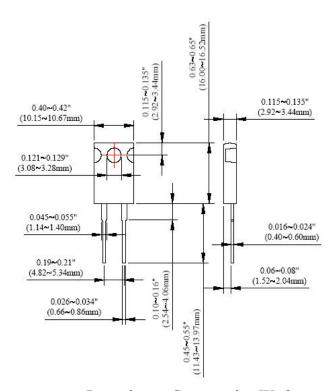
Dimensions

Unit:mm

TD.	Weight(g)	Packaging	
Туре	(1000pcs)	Tube	
TR35	1902	50 pcs	

■Derating Curve

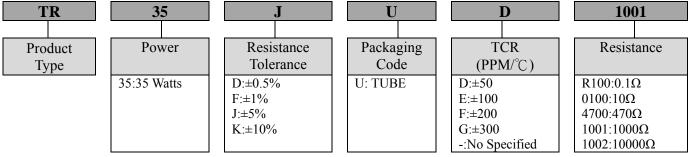




Remark: ---- Compression Washer



■Part Numbering



■Electrical Characteristics Specifications

Item		Resistance Range			TCR (PPM/°C)
Type	±0.5%	±1%	±5%	±10%	
	-		0.05Ω	-0.91Ω	No Specified
	_	>1Ω -2.7Ω			±100
TR35	-				±300
		$>3\Omega$ -10 Ω		±100	
	-			±200	
			±50		
		$>10\Omega - 10K\Omega$ ± 100 ± 200			±100
					±200

Operating Voltage: 350V max.
 Dielectric Strength: 1800VAC
 Insulation Resistance: 10GΩmin

■ Working Temperature Range:-65°C to +150°C

■ Resistance Value<1 Ω is available

■Environmental Characteristics

Test 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	△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	△R±1.0%	2,000 hours at rated power
Damp Heat with Load	△R±0.5%	$40\pm2^{\circ}$ C, 90~95% R.H. Max. working voltage for 1000 hrs with 1.5 hrs "ON" and 0.5 hrs "OFF"
Solder ability	90% min. coverage	245±5°C for 3 seconds
Thermal Shock	△R±0.3%	-65°C~150°C,100 cycles
Thermal Strength	△R±0.2%	(Pull Test) 2.4N
Vibration, High Frequency	△R±0.2%	20g peak

- Lead Material: Tinned Copper
- Without a Heat Sink, when in Free Air at 25°C, the TR35 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