

	Data Sheet	
Customer		
Product:	Power Resistors - TR100 Series	
<u>Size :</u>	TO-247	
Issued Da	te: 07-July-2023	
Edition:	Ver. 2	

Record of change

Date	Ver.	Description	Page
30-Nov2017	1		
07-July-2023	2	Parameters updated	1~2

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07-July-2023	07-July-2023	07-July-2023	
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TO-247 Power Resistors

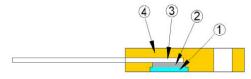
Features

- -100 Watts at 25°C case temperature heat sink mounted
- -To-247 style power package
- -Single M3 screw mounting to heat sink
- -Molded case for protection and easy to mount
- -Electrically isolated case
- -Non-Inductive design

Applications

- -Gate Resistors in Power Supplies
- Snubbers
- -Load and Dumping Resistors in CRT Monitors
- Terminal Resistance in RF Power Amplifier
- -Voltage Regulation
- -Low Energy Pulse Loading
- -UPS

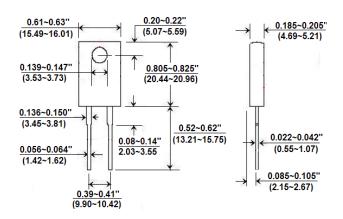
Construction



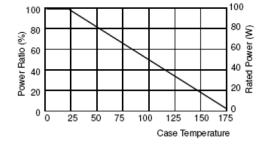
1	Alumina Substrate	3	Lead
2	Resistor Layer	4	Molding

Dimensions (Unit:mm/inch)

Turno	Weight(g)	Packaging
Туре	(1000pcs)	Tube
TR100	3381	35 pcs



Derating Curve



(TR100 Series)

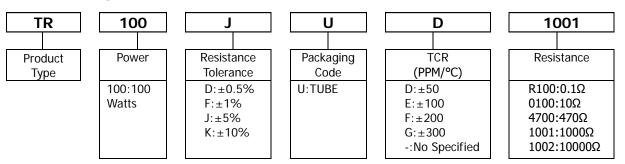




TO-247 Power Resistors

(TR100 Series)

Part Numbering



Electrical Characteristics Specifications

Item	Resistance Range		TCR (ppm/°C)	
Туре	±1%	±5%	±10%	
	- 0.05Ω - 1Ω		No Specified	
	>1Ω - 3Ω		±200 ±300	
TR100	>3Ω - 10Ω			±100 ±200
	>10Ω - 100ΚΩ			±50 ±100 ±200

※Operating Voltage: 700V Max.
※Dielectric Strength: 1800VAC
※Insulation Resistance: 10GΩ Min.

*Operating Temperature Range: -65°C ~ +175°C

Environmental Characteristics

Test Item	Requirement	Test Method
Temperature Coefficient of Resistance (T.C.R.)	As Spec.	Referenced to 25°C, \triangle R taken at +105°C
Load Life	△R±1.0%	2,000 hours at rated power
Solderability	90% min. coverage	245±5°C for 3 seconds
Momentary Overload	$\triangle R\pm 0.5\%$	1.5 times rated power and V(dc) \leq 1.5V Max. for 5 seconds
Dielectric Strength	△R±0.15%	1800V AC, 60 seconds
Moisture resistance	$\triangle R\pm 0.5\%$	-10°C~+65°C,RH>90%, cycle 240 hours
Thermal Shock	$\triangle R\pm 0.5\%$	-65°C~150°C,100 cycles
Terminal Strength	$\triangle R\pm 0.2\%$	(Pull Test) 2.4N
Vibration, High Frequency	$\triangle R\pm 0.4\%$	20g peak

*Lead Material: Tinned Copper

Maximum Torque: 0.9 Nm

When in Free Air at 25°C, the TR100 is rated for 3.5W

%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

Storage Temperature: 25±5°C; Humidity:<75% RH</p>