### **TO-247 Power Resistors**



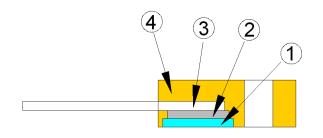
### **Features**

- -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 Amplifiers
- Voltage Regulation
- -Low Energy Pulse Loading
- -UPS

### Construction



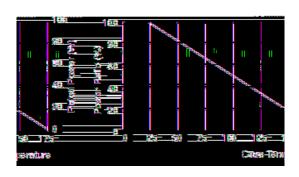
1	Alumina Substrate	3	Lead
2	Resistor Layer	4	Molding

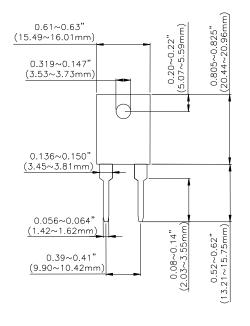
### **Dimensions**

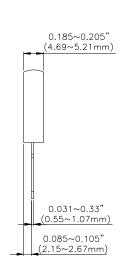
Unit: mm

Туре	Weight (g) (1000pcs)
TR100	3381

# Derating Curve

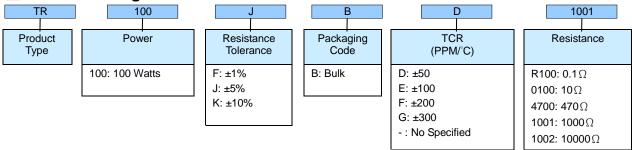






#### **TO-247 Power Resistors**

### ■Part Numbering



## Electrical Characteristics Specifications

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

Operating Voltage: 700V Max.
Dielectric Strength: 1800V AC
Insulation Resistance: 10GΩ min.

■ Working Temperature Range: -65°C to +175°C

### ■ Environmental Characteristics

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

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