

T0-220 POWER RESISTOR

- RTR100 SERIES -

FEATURES

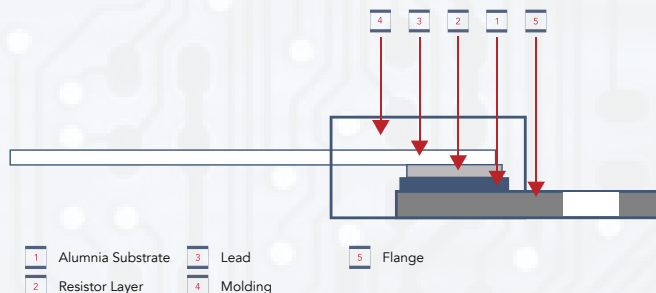
- 100 Watts at 25°C case temperature heat sink mounted
- T0-247 style power package
- Single M3 screw mounting to heat sink
- Molded case for protection and easy to mount
- Electrically isolated case
- Non-Inductive design



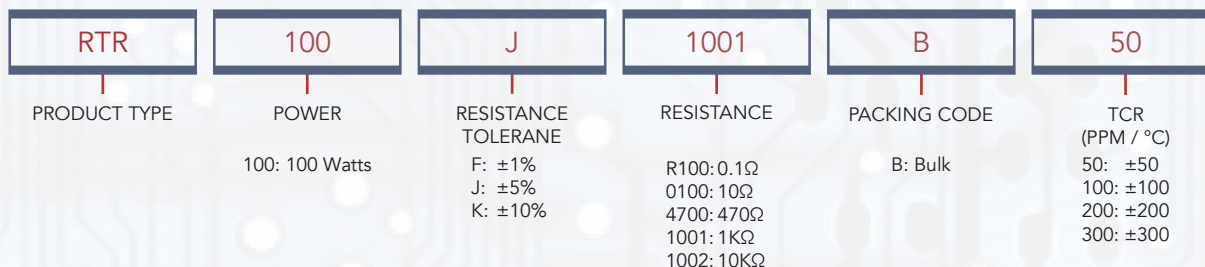
APPLICATIONS

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

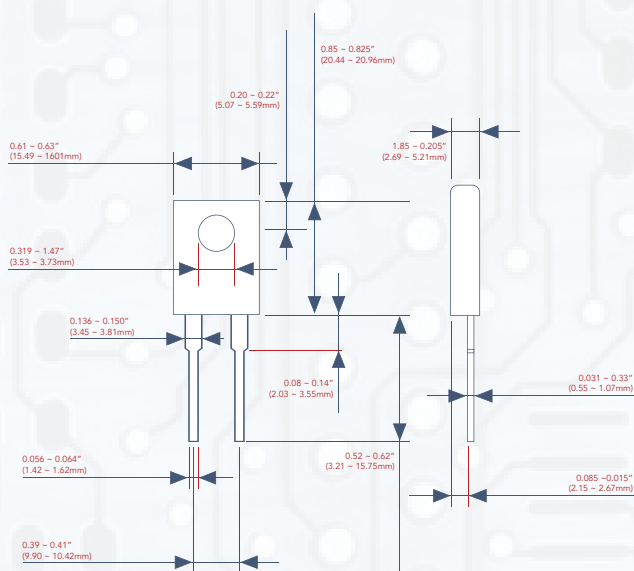
CONSTRUCTION



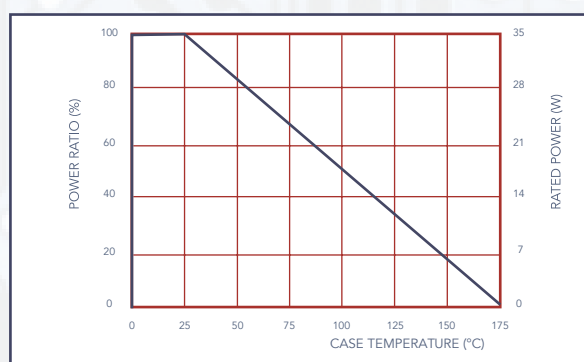
PART NUMBERING



DIMENSIONS



DERATING CURVE



TYPE	WEIGHT (G) (1000 PCS)
RTR100	3381



ELECTRICAL CHARACTERISTICS SPECIFICATIONS

TYPE	ITEM	RESISTANCE RANGE				TCR (PPM/°C)
		±0.5%	±1%	±5%	±10%	
RTR100	-	-	-	0.05Ω - 1Ω		Not Specified
	-	-	≥ 1Ω - 3Ω			± 300
	-	-	≥ 3Ω - 10Ω			±100 ±200
	-	-	≥ 10Ω - 100KΩ			±50 ±100 ±200

- Operating Voltage: 700V Max
- Dielectric Strength: 1800VAC

- Insulation Resistance: 10GΩ min.
- Working Temperature Range: -65°C to +150°C



ENVIRONMENTAL CHARACTERISTICS

ITEM	REQUIREMENT	TEST METHOD
Temperature Coefficient of Resistance (T.C.R.)	As Spec.	Referenced to 25°C, ΔR taken at +105°C
Load Life	ΔR ± 1.0%	2,000 hours at rated power
Solderability	90% min coverage	245±5°C for 3 seconds
Momentary Overload	ΔR ± 0.5%	1.5 times rated power and V (dc) ≤ 1.5 for 5 seconds
Dielectric Strength	ΔR ± 0.15%	1800c AV, 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

RCWV (Rated Continuous Working Voltage) $-\sqrt{P \cdot R}$ or Max. Operating Voltage whichever is lower.

- Lead Material: Tinned Copper
- Maximum Torque: 0.9Nm
- When in Free Air at 25°C, the RTR100 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.

