T0-220 POWER RESISTOR

- RTR35 SERIES -

FEATURES

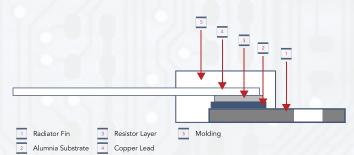
- 35 watts at 25°C case temperature heat sink mounted
- T0-220 style power package
- Single screw mounting to heat sink
- Molded case for protection and easy to mount
- Electrically isolated case
- Non-Inductive design

APPLICATIONS

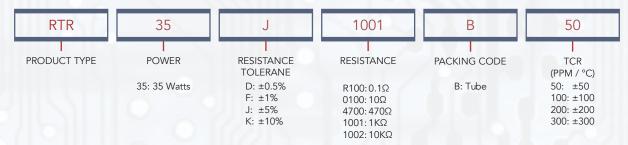
- Switching Power Supplies
- Snubber Circuits
- Automated Machine Controller
- RF Power Amplifiers
- Low Energy Pulse Loading
- UPS
- Voltage Regulation



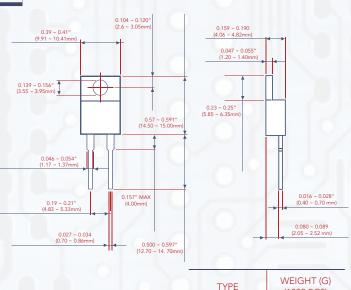
CONSTRUCTION



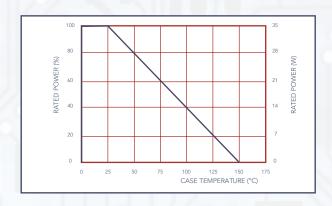
PART NUMBERING



DIMENSIONS



DERATING CURVE







(1000 PCS)

1902

RTR35

■ ELECTRICAL CHARACTERISTICS SPECIFICATIONS

TYPE	RESISTANCE RANGE				TCR
	±0.5%	±1%	±5%	±10%	(PPM/°C)
RTR35			0.05Ω - 1Ω		Not Specified
	-	≥ 1Ω - 5Ω			± 300
	-	≥ 5Ω - 10Ω			±100 ±200
	≥ 10Ω - 100ΚΩ				±50 ±100 ±200

- Operating Voltage: 420 V Max - Dielectric Strength: 1800VAC

- Insulation Resistance: $10G\Omega$ min.

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

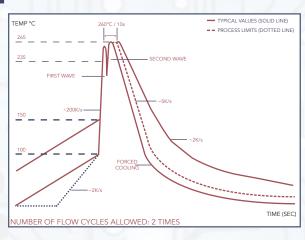
- Resistance Value $< 1\Omega$ is available

■ ENVIRONMENTAL CHARACTERISTICS

ITEM	REQUIREMENT	TEST METHOD		
Temperature Coefficient of Resistance (T.C.R.)	As Spec.	Referenced to 25°C, DR 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: 0.9N-m
- Without a Heat Sink, When in Free Air at 25° C, the RTR35 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.

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°C " 5s



