T0-220 POWER RESISTOR

- RTR20 SERIES -

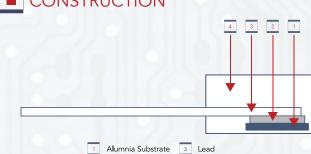
■ FEATURES

- 20 Watts at 25°C case temperature heat sink mounted.
- T0-220 style power package
- Molded case for protection and easy to mount
- Electrically isolated case
- Non-Inductive design

APPLICATIONS

- High Speed Switching Power Supplies
- Snubber Circuits
- Load Resistor for Pulse Generators
- Voltage Regluation
- VHF Amplifiers

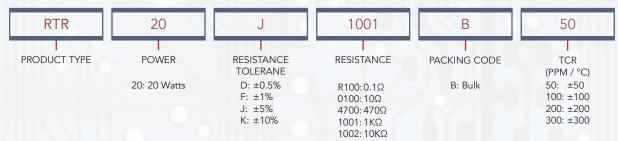




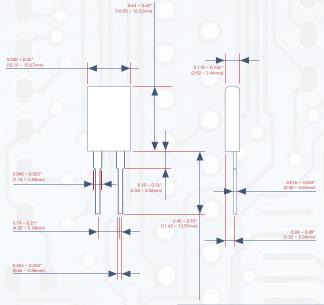
Molding

Resistor Layer

PART NUMBERING

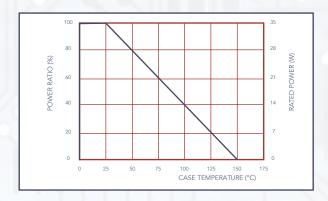


DIMENSIONS



TYPE	WEIGHT (G) (1000 PCS)		
RTR20	1290		

DERATING CURVE





■ ELECTRICAL CHARACTERISTICS SPECIFICATIONS

ITEM		TCR			
TYPE	±0.5%	±1%	±5%	±10%	(PPM/°C)
RTR20 -			0.05Ω - 1Ω		Not Specified
		≥ 1Ω - 3Ω			± 300
	V-1	$\geq 3\Omega - 10\Omega$			±100 ±200
	≥ 10Ω - 1MΩ				±50 ±100 ±200

- Operating Voltage: 350V 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		
emperature Coefficient of Resistance 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		

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

- Lead Material: Tinned Copper
- Without a Heat Sink
- When in Free Air at 25°C, the RTR20 is Rated for 3W.
- 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.



