RTR20 - T0-220 - POWER RESISTOR

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

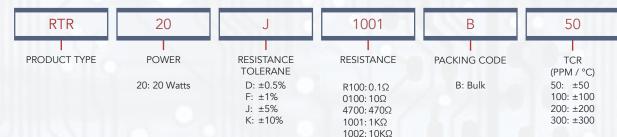
- High Speed Switching Power Supplies
- Snubber Circuits
- Load Resistor for Pulse Generators
- Voltage Regluation
- VHF Amplifiers

CONSTRUCTION

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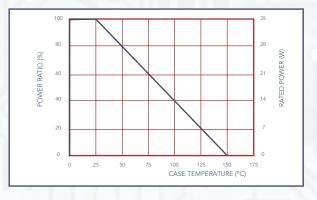


PART NUMBERING



DIMENSIONS

DERATING CURVE



59 Steamwhistle Drive, Ivyland, PA 18974 p. 215.942.8900 www.calchip.com quotes@calchip.com

HF

ELECTRICAL CHARACTERISTICS SPECIFICATIONS

ITEM	RESISTANCE RANGE				TCR
ТҮРЕ	±0.5%	±1%	±5%	±10%	(PPM/°C)
RTR20		1.1.1	0.05Ω - 1Ω		Not Specified
	· · ·	≥ 1Ω - 3Ω			± 300
	-	≥ 3Ω - 10Ω			±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 <1Ω 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	

RCWV (Rated Continuous Working Voltage) - (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.



