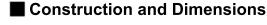
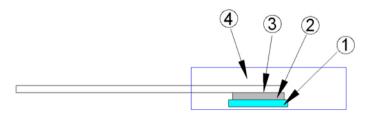
T0-220 Power Resistor -**RTR20 Series**



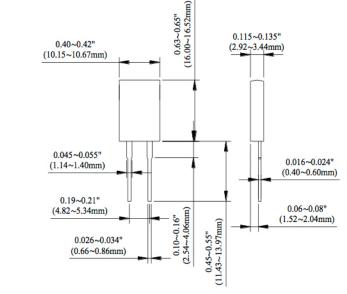








1	Alumina Substrate	3	Lead
2	Resistor Layer	4	Molding



Туре	Weight (g) (1000pcs)	
RTR20	1290	

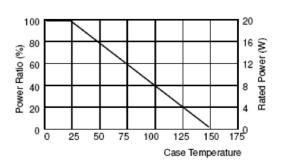
Features

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

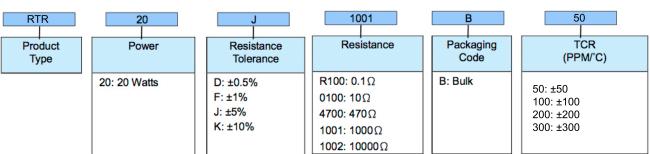
Applications

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

Derating Curve



Part Numbering



Calchip Electronics, INC. Phone: (215) 942-8900



Electrical Characteristics Specifications

Item		TCR (PPM/°C)			
Туре	±0.5%	±1%	±5%	±10%	, , , , , , , , , , , , , , , , , , , ,
	-	-	0.05Ω -1Ω		No Specified
[7.5	>1Ω -3Ω			±300
RTR20	1-	>3Ω -10Ω			±100 ±200
		>10Ω –1ΜΩ			

Operating Voltage: 350V max.
Dielectric Strength: 1800VAC
Insulation Resistance: 10GΩ min.

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

Resistance Value< 1Ω is available

■Environmental Characteristics

Test Item	Requirement	Test Method	
Temperature Coefficient of Resistance (T.C.R.)	As Spec.	Referenced to 25°C, ∆R 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. Max. 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

■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

RCWV(Rated continuous working voltage)= √(P*R) or Max. Operating voltage whichever is lower

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