

TO-220 Power Resistors

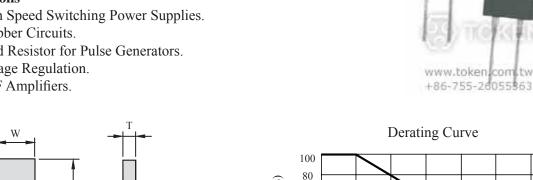
TO-220 Power Resistors - RMG20 Series / 薄膜功率电阻器

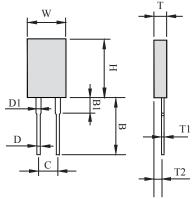
Power Resistor Features

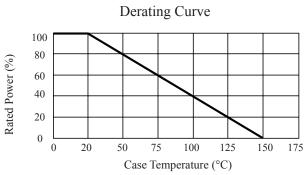
- 20 Watt at 25°C Case Temperature Heat Sink Mounted.
- TO-220 Style Power Package.
- Molded Case for Protection and Easy to Mount.
- Isolated Case.
- Non Inductive.

Applications

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







Dimensions (Unit: mm)

Туре	W	Н	Т	T1	T2	В	B1	С	D	D1
RMG20	10.15~10.67	16.00~16.52	2.92~3.44	0.40~0.60	1.52~2.04	11.43~13.97	2.54~4.06	4.82~5.34	0.66~0.86	1.14~1.40

Electrical Characteristics Specifications

Resistance Range	Resistance Tolerance	TCR(PPM/°C)
$0.05\Omega{\sim}1\Omega$	±5.00% ±10.0%	-
2Ω~5Ω	±1.00% ±5.00% ±10.0%	±200
$5\Omega\sim10\Omega$	±1.00% ±5.00% ±10.0%	±100 ±200
11Ω~10ΚΩ	±0.50% ±1.00% ±5.00% ±10.0%	±50 ±100 ±200

Note:1.Operating Voltage:350V Max. 2. Dielectric Strength: 1800VAC

3.Insulation Resistance: 10GΩmin.

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

5.Resistance Value < 1Ω is Available



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Environmental Characteristics

Test Item	Specification	Test Method
Temperature Coefficient of Resistance	10Ω and above, ±50ppm/°C 1Ω and 10Ω , (±100ppm)/°C	Referenced to 25°C, ΔR taken at +105°C
Short Time Overload	Δ R±0.3%	2 times rated power with applied voltage not to exceed 1.5 times maximum continuous operating voltage for 5 seconds.
Load Life	Δ R±1.0%	MIL-R-39009,2,000 hours at rated power.
Humidity (Steady State)	Δ R±0.5%	MIL-STD-202F, Method 103B 40°C, 90~95%RH, RCWV 1.5hours ON, 0.5hours OFF. total 1000~1048 hours.
Thermal Shock	Δ R±0.3%	MIL-STD-202, Method 107G. -65°C~150°C,100 cycle
Terminal Strength	Δ R±0.2%	MIL-STD-202, Method 211, Cond.A(Pull Test) 2.4N.
Vibration, High Frequency	Δ R±0.2%	MIL-STD-202, Method 204, Cond.D.

Note:1.Lead Material: Tinned Copper.

- 2. Without a Heat Sink, when in Free Air at 25°C, the RMG20 is Rated for 2.25W.
- 3. The Case Temperature is to be used for the Definition of the Applied Power Limit.
- 4.The Case Temperature Measurement Must be Made with a Thermocouple Contacting the Center of the Component Mounted on the Designed Heat Sink.
- 5. Thermal Grease Should be Applied Properly.

► How to Order

RMG	20	J	Р	D	1001
0	2	8	4	6	6

- Product Type: TO-220 Power Resistors
- 2 Power Rating

Code	Power Rating			
02	20 Watts			

3 Resistance Tolerance

Code	Resistance Tolerance
D	±0.5%
F	±1%
G	±2%
J	±5%
K	±10%

Packaging

Code	Packaging
T	Tube
P	Bulk

6 TCR

Code	TCR
D	±50PPM/°C
Е	±100PPM/°C
F	±200PPM/°C
-	No specified

6 Resistance

Code	Resistance
0R10	0.1Ω
0100	10Ω
4700	470Ω
1001	1000Ω
1002	10000Ω