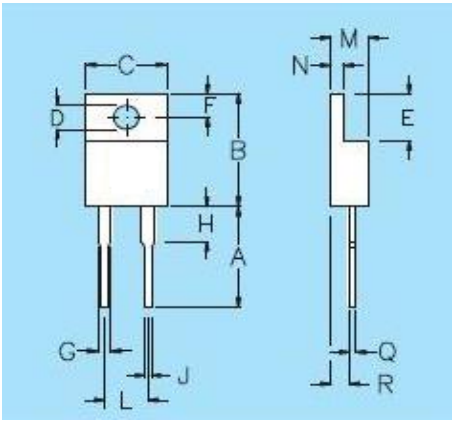
RMP35 TO-220 Flange Plate Power Resistors (thick film, non-inductive design)

35 Watt Thick Film Power Resistors for high Frequency and Pulse Loading Applications

Technical characteristics:

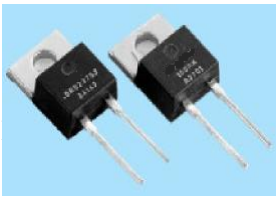
- 35W power rating at 25°C
- Standard TO-220 package, flange plate mounting.
- Plate mounting with single M3 screw.
- Resistor element is electrically insulated from the metal heat sink.
- Standard lead form for easy assembly.
- Pulse load capability, refer to "Rongtech power resistor pulse load characteristics".

Dimensions:



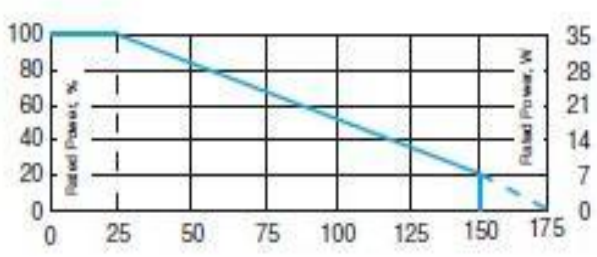
Dim.	Min (mm)	Max(mm)
A	12.70	14.70
B	14.50	15.00
C	9.91	10.41
D	3.55	3.75
E	5.85	6.35
F	2.85	3.05
G	1.17	1.37
H	-----	4.00
J	0.70	0.86
L	4.83	5.33
M	4.06	4.82
N	1.20	1.40
Q	0.55	0.70
R	2.05	2.25

Specifications:



- Resistance:0.2Ω～1MΩ
- Tolerance:±1%～±10% (±0.5% on request)
- TCR: ±50ppm/℃ (25℃～105℃
- 35W power rating at 25℃
- Max operating voltage:350VDC。
- Dielectric strength: 1,800VAC
- Insulation resistance: 10GΩ, min.
- Momentary overload: 2 times rated power, but no more than 1.5 times Max continuous operating voltage, last 5s, ΔR≤±(0.3%R+0.001Ω).
- Load life: 2,000 hours at rated power, MIL-R-39009D ΔR≤±(1.0%R+0.001Ω).
- Moisture resistance: MIL-Std-202, method 106, ΔR≤±(0.5%R+0.001Ω).
- Thermal shock: MIL-Std-202, method 107, Cond.F, ΔR≤±(0.3%R+0.001Ω).
- Terminal strength: MIL-Std-202, method 211, Cond.A, (pull test)2.4N, ΔR≤±(0.2%R+0.001Ω).
- Vibration, high frequency: MIL-Std-202, method 204, Cond.D, ΔR ≤±(0.2%R+0.001Ω).
- Working temperature: -55℃～+175℃
- Lead material: tinned copper

Power derating curve (power VS BCT)



Remark:

1, derating curve slope (thermal resistance):0.23W/°K(4.28°K/W) Refer to Rongtech power resistor cooling requirements"

2, without heat sink at 25℃, MXP35 rated power is 2.50W, above

Applicable standard:

IEC60115-1：2001 (GB/T5729-2003)
MIL-STD-202
MIL-R-39009D

Order example:

Model	R	TOL	TCR
MXP35	50R	5%	150PPM