

200W

CHASSIS MOUNTING NON-INDUCTIVE
HIGH POWER RESISTORS
RPM150, RPM200



Features and Applications

Small size SOT227, light weight, 200W high power resistor install on air-cooled heat sink or water-cooling is necessary.

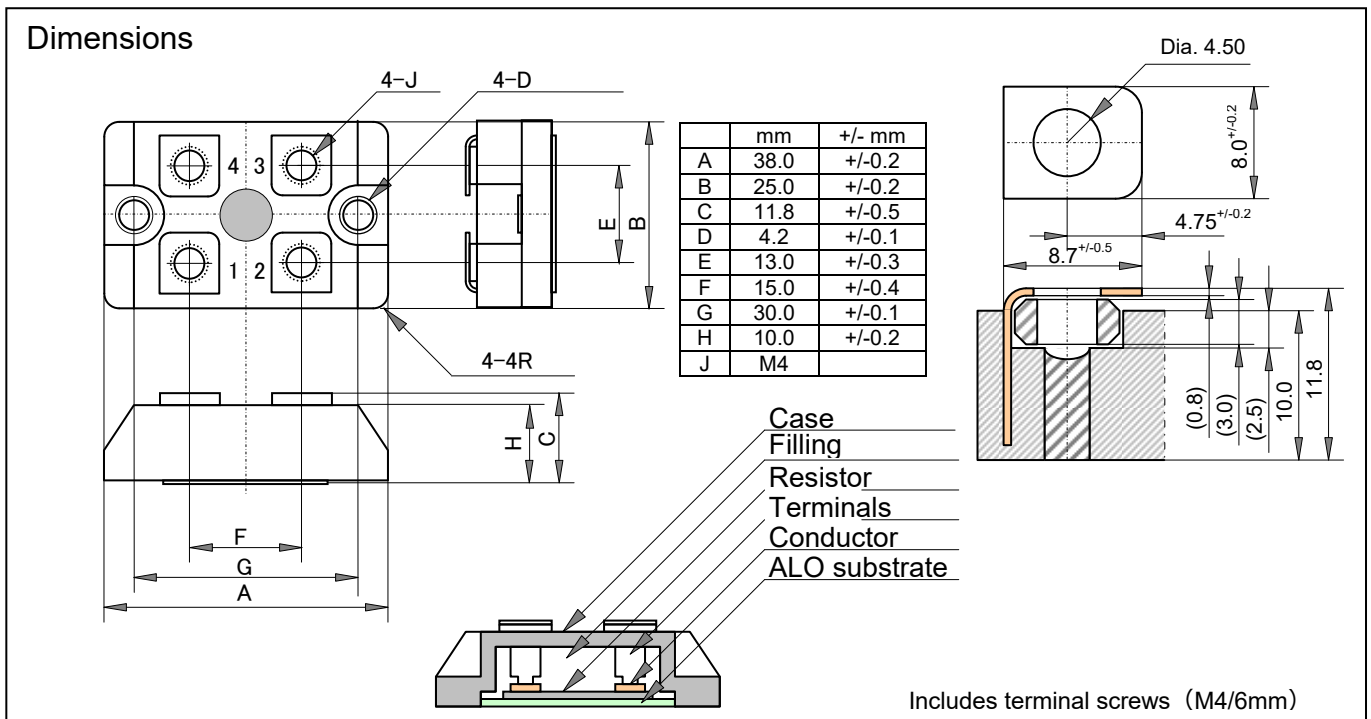
Completely resin filled structure provides high insulation voltage between heat-sink / resistor and partial discharge performance, long-life stable operation.

2.5kV insulation voltage is standard and 4.0kV insulation is available in option.

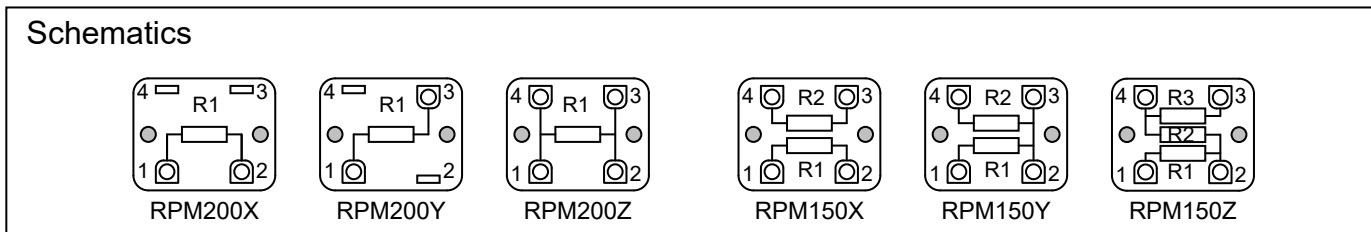
Various 6 types of circuit configuration gives ease customer's applications.

Very low series inductance and parallel capacitance make wide frequency range operation.

Applications include snubber resistors, filter resistors, bleeder resistor, current detect for automotive electronics and many types of power electronics as UPS, power supply, professional audio.



Note: The depth of the screw hole is about 4.3mm from the surface of the terminal plate.



RPM150, RPM200

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Ordering Information

| | | | | | | |
|------------------|--------------------------|------------------|---|--------------------------|----------------------------|-------------------------|
| Type RPM200 | Terminal Connection Z | TCR 100ppm/°C | Resistance 101 (*) +E12 R1=R2=R3 | Tolerance J J (5%) | RoHS Z03 Z (RoHS) | Package (20pcs/tube) |
| RPM150 RPM200 | X Y Z | | | | | |

(*) When a network circuit configuration contains two resistors, ordering is RPM150X101JZ00.

(**) Terminal screws provide by standard, M4-5mmL only. If the screws are not necessary, please mention about it on the order sheet.

(***) When ordering of the optional 4KV insulation, please specify P/N as RPM200X4KV 101JZ00.

Specifications and Performances

| | RPM150 | RPM200 | Conditions |
|-------------------------------|---|------------|--|
| Rating Power | 150 W | 200W | At flange temp. -55°C to +85°C |
| Configuration | XYZ | XYZ | |
| Weight | 20.0gr | 20.0gr | |
| Thermal Resistance. | 0.35 °C /W | 0.35 °C /W | |
| Single or Dual Configuration | More than one | | Same resistance, R1= R2= R3 |
| Resistance Range | 0.1 ohm to 1Mohm | | RPM200Z 0.1Ω -1.0Ω, 1% option, please see Note 5 |
| Resistance | E12+ | | Additionally, 2.5 and 5.0. |
| TCR | +/-100 ppm/°C | | For -55°C to +125°C, typical, over10 ohm |
| Tolerance | +/-5%(J) | | 1% option |
| Operation Temp. | -55 - +155 °C | | At resistor element surface |
| Max. Voltage | Less than $E = \sqrt{P \cdot R}$ or 1000V | | |
| Max. Current | 100A | | |
| Insulation Voltage | 2500 VAC / 4000VAC | | 60 seconds. 4KVAC optionally available |
| Capacitance between terminals | 13.1pF | | typical |
| Inductance | 13.7nH | | typical |
| Load Life | +/-1.0 % | | 25C, 90 min. ON, 30min. OFF, 1000h. |
| Humidity | +/-1.0 % | | 40C, 90 to 95%RH, DC0.1W, 1000h. |
| Tem. Cycle | +/-1.0 % | | Note 1 |
| Short Time Over Load | Rated Power | | Note 2 |
| Insulation | Over 1000 Meg Ω | | Between terminals and heat-sink. |
| Vibration | +/-0.25 % | | Note 4 |
| Flammability | UL94V-0 | | |
| Weight | 20.0 grams | | |

Note1: -55°C, 30 min., +120 °C 30min., 20 cycles.

Note2: Several seconds overload can not be applied.

Note3: Torque: Terminal 1.0Nm max, 0.6Nm recommend. Mounting 1.6Nm max, 1.0Nm recommend.

Note 4: IEC60068-2-6, displacement 0.75mm or acceleration 100m/sec², 10Hz-54Hz sweep, 10 cycles X-Y-Z direction.

Note 5. When option 1% tolerance at range 0.1Ohm to 1 Ohm is necessary, Kelvin style connection of RPM200Z would be recommended

