

CHASSIS MOUNTING NON-INDUCTIVE
HIGH POWER RESISTORS

RPJ150, RPJ200



Features and Applications

Small size TO227, 200W high power resistor. Attaching an air-cooled heat sink or water-cooling is necessary.

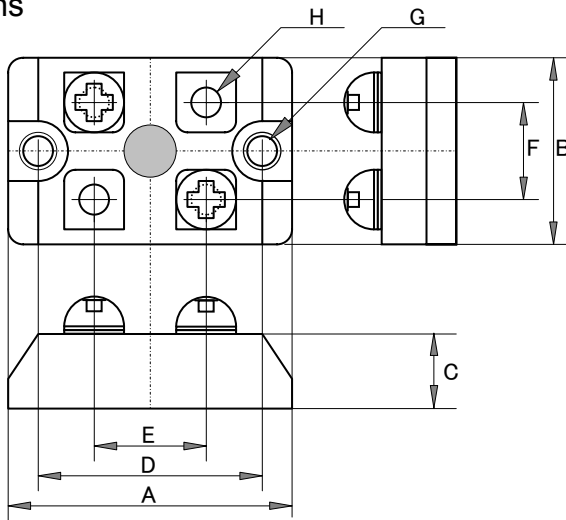
Rated power is 200W (one element) or 150W (two elements).

M4 screw terminals, very low series inductance.

Higher density packing, vibration-proof and perfect heat dissipation possible. 0.5K/W thermal resistance.

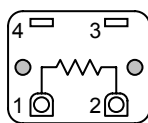
Applications include snubber resistors for power supplies, gate resistors, pulse generators, and high frequency amplifiers, dumping resistance of theater audio equipment of dividing network of loud speaker systems, etc.

Dimensions

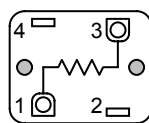


| Symbols | (mm) | Note |
|---------|-----------|------|
| A | 38+/-0.5 | |
| B | 25+/-0.5 | |
| C | 13+/-0.5 | |
| D | 30+/-0.2 | |
| E | 15+/-0.5 | |
| F | 13+/-0.5 | |
| G | 2-3.2dia. | |
| H | 4-M4.0 | |

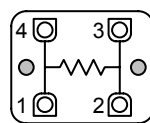
Schematics



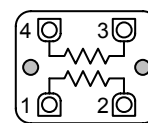
RPJ200X



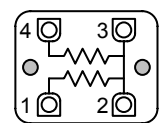
RPJ200Y



RPJ200Z



RPJ150X



RPJ150Y

CHASSIS MOUNTING NON-INDUCTIVE HIGH POWER RESISTORS
 RPJ150, RPJ200

Ordering Information

| P/N | Type | TCR | Resistance | Tolerance | Note |
|-------------------|---------|-------------|------------|-----------|---------------|
| RPJ150XA1+1 ohmJ | RPJ150X | A(100ppm/K) | 1+1ohm | J(5%) | Two resistors |
| RPJ150XA5+5ohmJ | RPJ150X | A(100ppm/K) | 5+5ohm | J(5%) | Two resistors |
| RPJ150YA10+10ohmJ | RPJ150Y | A(100ppm/K) | 10+10ohm | J(5%) | Two resistors |
| RPJ150YA50+50ohmJ | RPJ150Y | A(100ppm/K) | 50+50ohm | J(5%) | Two resistors |
| RPJ200YA50ohmJ | RPJ200Y | A(100ppm/K) | 50ohm | J(5%) | One resistor |
| RPJ200ZA100ohmJ | RPJ200Z | A(100ppm/K) | 100ohm | J(5%) | One resistor |
| RPJ200YA50ohmJ | RPJ200Y | A(100ppm/K) | 50ohm | J(5%) | One resistor |
| RPJ200ZA100ohmJ | RPJ200Z | A(100ppm/K) | 100ohm | J(5%) | One resistor |

Specifications and Performances

| P/N | RPJ150 | RPJ200 | Test Conditions |
|-----------------------|----------------------------|--------------|--|
| Rating Power | 150 Watts | 200 Watts | With heat sink, 0.9K/W. |
| Resistor | Dual | Single | |
| Resistance Range | 0.1ohm~1Kohm | 0.1ohm~1Kohm | |
| Nominal Resistance | E24+ | E24+ | Additionally, 2.0 and 5.0. |
| TCR | +/-100 ppm/K | +/-100 ppm/K | For -55 to +155 degC |
| Tolerance | +/-5% | +/-5% | |
| Operation Temp. Range | -55 - +155 C | -55 - +155 C | |
| Max. Applied Voltage | $E = \sqrt{P \cdot R}$ | | |
| Withstanding Voltage | 2500 VDC | | 60 seconds. |
| Load Life | +/- (1.0 % + 0.05 ohm) | | 25C, 90 min.ON, 30min.OFF, 1000hours. |
| Humidity | +/- (1.0 % + 0.05 ohm) | | 70C, 90~95%RH, DC0.1W, 1000hours. |
| Temperature Cycle | +/- (1.0 % + 0.05 ohm) | | Note 1 |
| Short Time Overload | +/- (0.25 % + 0.05 ohm) | | Rating watt x 2.5, 2.5seconds, with heat sink. |
| Soldering Heat | +/- (0.25 % + 0.05 ohm) | | 350C +/- 5C, 3 seconds, |
| Solderability | Soldering is not available | | - |
| Insulation Resistance | Over 1000 Meg ohm | | Between terminals and flange. |
| Vibration | +/- (0.25 % + 0.05 ohm) | | |

Note 1: -55C, 30 min., +155C, 30min., 20cycles.

