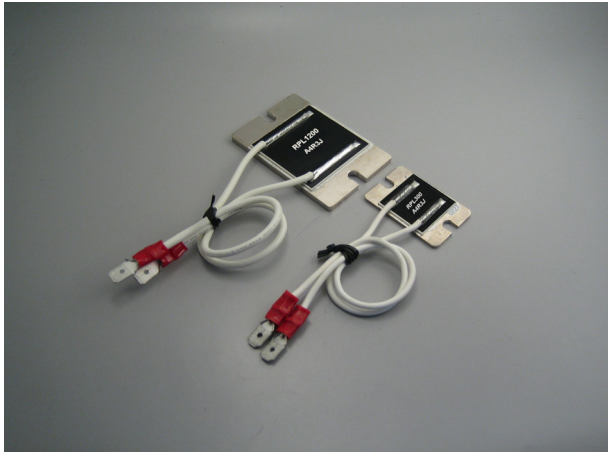


CHASSIS MOUNTING NON-INDUCTIVE
HIGH POWER RESISTORS

RPL250, RPL300, RPL1210



Features and Applications

Small size, low profile , 1200W high power resistor. Attaching a large air-cooled heat sink or water-cooling will be necessary.

Rated power is 1200W, 300W (single) and 250W (dual/total).

M4 screw mount, wire leads, very low series inductance.

Higher density packing, vibration-proof and perfect heat dissipation possible.

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

Specifications and Performances

| Items | RPL250 | RPL300 | RPL1210 | Test Conditions |
|-----------------------|--|----------------------------|--------------------------|--|
| Rated Power | 250 Watts | 300 Watts | 1200 Watts | At flange temperature -55 to +25 deg C, per resistor unit. |
| Short Time Overload | 250 Watts | 300 Watts | 1200 Watts | Same as rated power |
| Resistance Range | 0.1ohm to 51Kohm Dual | 0.1ohm to 51Kohm Single | 1ohm to 51Kohm Single | |
| Nominal Resistance | E24+ | E24+ | E24+ | Any value optionally |
| TCR | +/-100 ppm/deg C | +/-100 ppm/deg C | +/-100 ppm/deg C | For -55 to +155 deg C |
| Tolerance | +/-5.0%(J) | +/-5.0%(J) | +/-5.0%(J) | +/- 1%(F) is available optionally |
| Thermal Resistance | 0.22 deg C/W | 0.26 deg C/W | 0.10 deg C/W | |
| Operation Temp. Range | -55 - +155 deg C | -55 - +155 deg C | -55 - +155 deg C | |
| Max. Working Voltage | either 1000V or $E = \sqrt{P \cdot R}$ | | | |
| Max. Working Current | either 10A or $I = \sqrt{P / R}$ | | | |
| Withstanding Voltage | 2000 V AC | | | 60 seconds. Between terminals and flange. |
| Load Life | +/-1.0 % | | | 25 deg C, 90 min. ON, 30min.OFF, 1000hours. |
| Humidity | +/-1.0 % | | | 40 deg C, 90 to 95%RH, DC0.1W, 1000hours. |
| Thermal Shock | +/-1.0 % | | | -55 deg C, 30 min., +155 deg C 30min., 5 cycles. |
| Insulation Resistance | Over 1000 Meg ohm | | | Between terminals and flange. |
| Vibration | +/-0.25 % | | | Note 1 |
| Weight | 20 grams | 20 grams | 160 grams | |

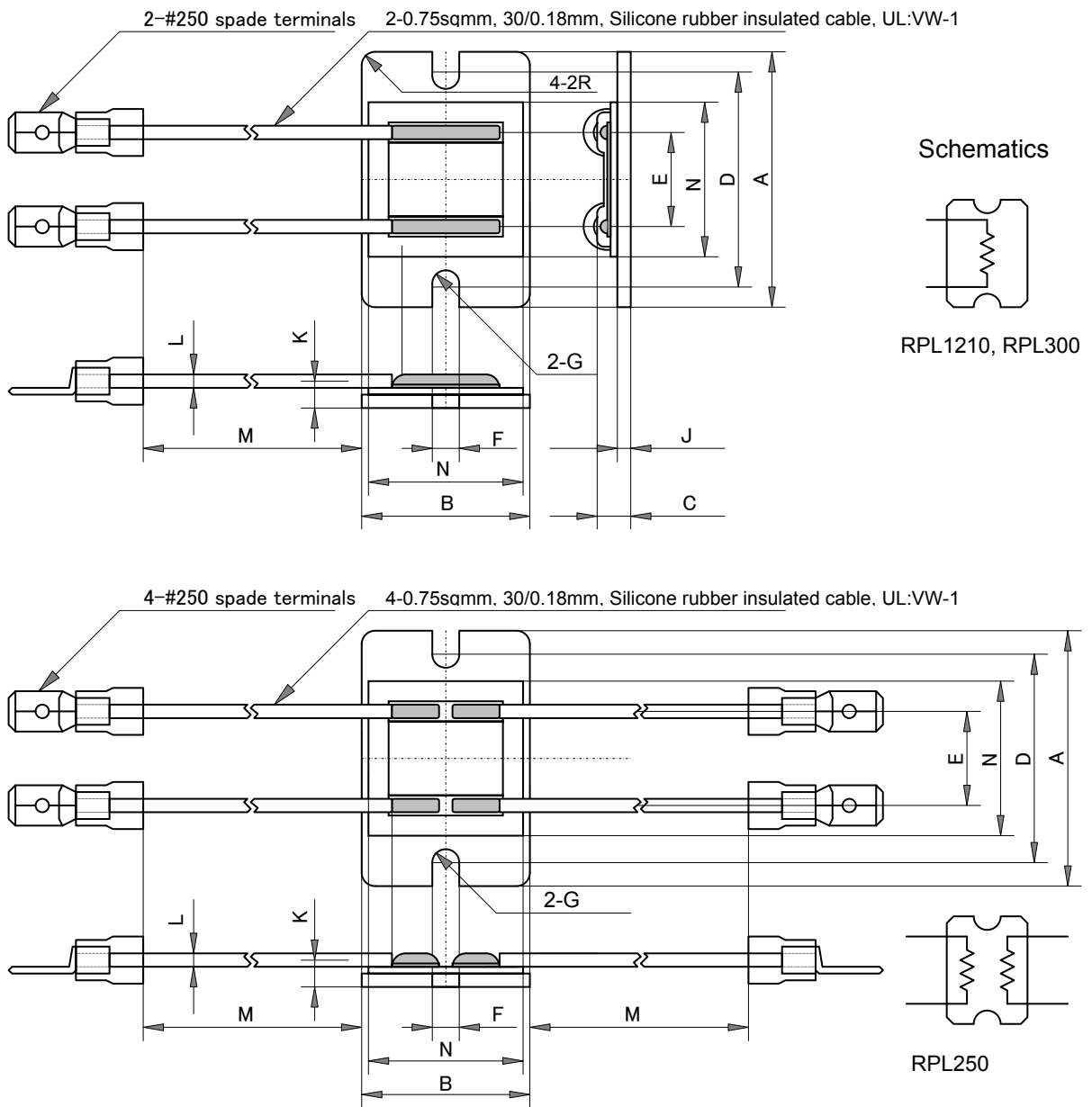
Note 1: IEC60068-2-6, and specification is sin-wave sweep wave form, 10Hz-55Hz, 10 cycles, amplitude 0.75mm, 45minutes. direction x-y z.

Ordering Information

| P/N | Type | TCR | Resistance | Tolerance | Note |
|------------------|---------|-----------------|------------|-----------|---------------|
| RPL250A50+50ohmJ | RPL250 | A(100ppm/deg C) | 50+50ohm | J(5%) | Two resistors |
| RPL250A1K+1KohmJ | RPL250 | A(100ppm/deg C) | 1K+1Kohm | J(5%) | Two resistors |
| RPL300A20ohmJ | RPL300 | A(100ppm/deg C) | 20ohm | J(5%) | One resistor |
| RPL300A100ohmJ | RPL300 | A(100ppm/deg C) | 100ohm | J(5%) | One resistor |
| RPL1210A20ohmJ | RPL1210 | A(100ppm/deg C) | 20ohm | J(5%) | One resistor |
| RPL1210A100ohmJ | RPL1210 | A(100ppm/deg C) | 100ohm | J(5%) | One resistor |

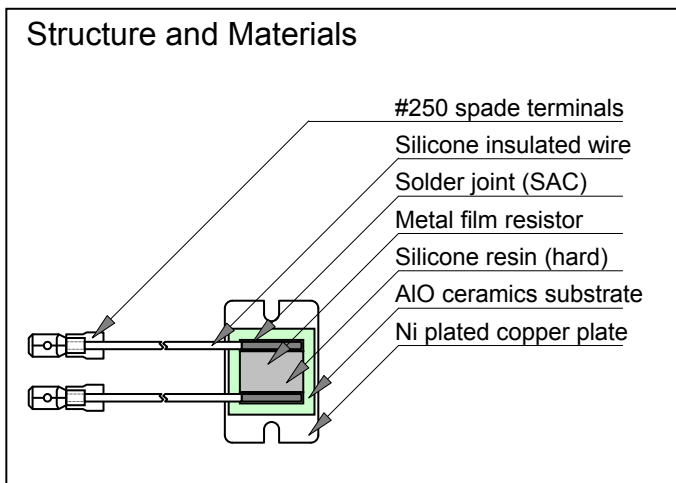
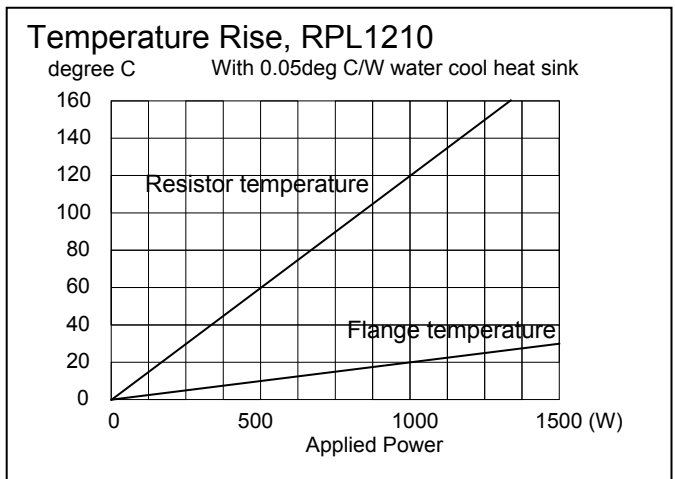
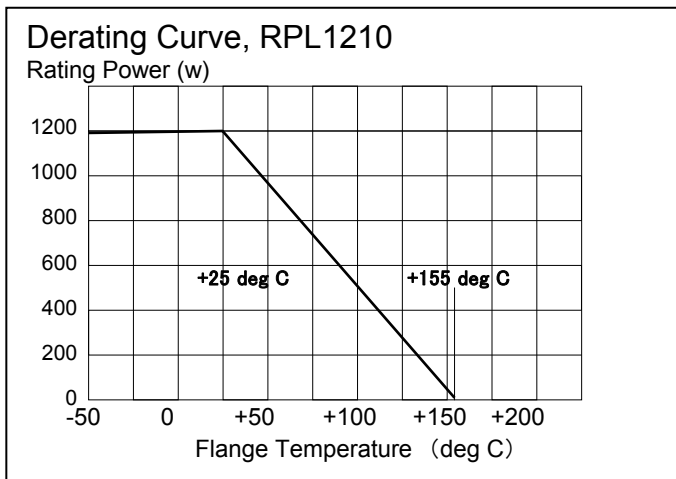
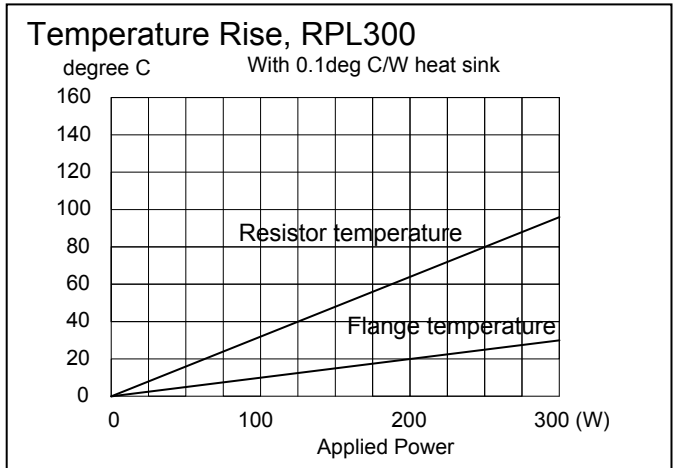
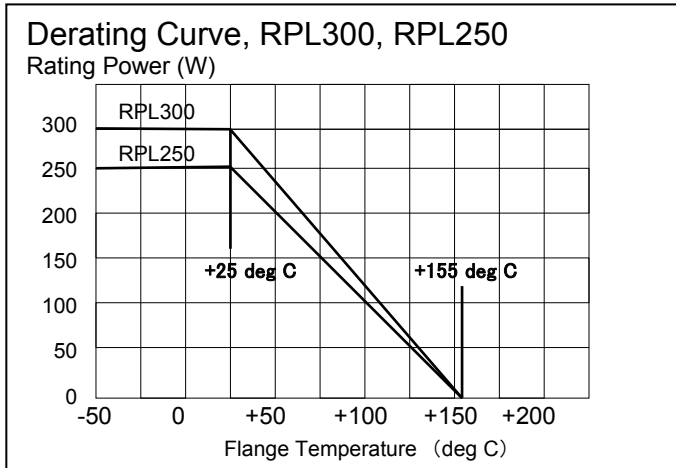
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Dimensions



| (mm) | A | B | C | D | E | F | G | J | K | L | M | N |
|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|----------|-------|------|
| RPL300 | 38 | 25 | 4.0 | 32 | 14 | 4.5 | 2-2.1R. | 1.5 | 2.5 | 2.1 dia. | 150.0 | 23.0 |
| RPL250 | +/-0.5 | +/-0.5 | +/-0.5 | +/-0.2 | +/-0.5 | +/-0.2 | | +/-0.2 | +/-0.5 | | +/-10 | -- |
| (mm) | | | | | | | | | | | | |
| RPL1200 | 60 | 40 | 8.0 | 50 | 28 | 4.8 | 2-2.4R. | 4.0 | 6.0 | 2.1 dia. | 150.0 | 37.0 |
| | +/-0.5 | +/-0.5 | +/-0.5 | +/-0.2 | +/-1 | +/-0.2 | | +/-0.2 | Max. | | +/-10 | -- |

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Note:
 Natural air cooling, cooling with blower and a water-cooled system can be used for cooling resistor.
 When attach a resistor to a cooler, please apply heat conduction grease to the back side of a resistor, and attach it on cooler.
 Please finish flatly the surface of a cooler to which a resistor is attached.
 M4 screw is used with bolting torque of 1.5 N.
 When you use resistor with steady rated power, please maintain the temperature of a flange at +25 degrees C.
 Please refer load derating, when flange temperature goes to +25 degrees C or more according to the cooling capacity of a cooling system.