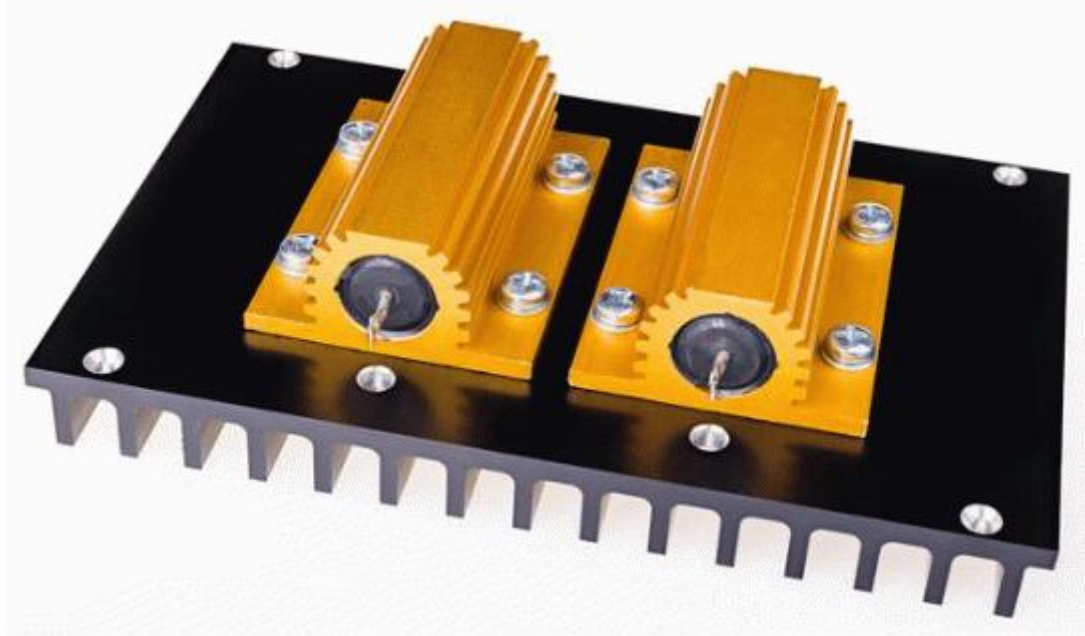


[LAB] Resistencia 8 Ω , 100 W

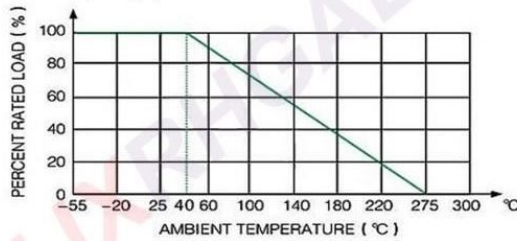


1. Disipador para resistencia de potencia



Product parameter

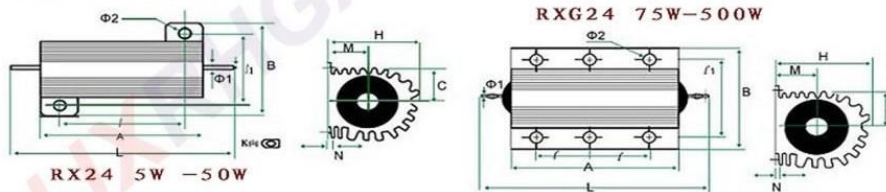
Power consumption graph



Installation instructions

- Multiple connection methods for easy installa
- Below 50w, there are separate lead wires and screw-out installation, usually screw-out installa
- Above 75W is also called RXG screw, which is different from 50W screw type installation;
- For drawings, please refer to the product disp diagram.

Dimension drawing reference



physical dimension

| model | Rated power (W) at 250°C with heat sink | Dimensions (mm) | | | | | | | | | | | | Weight (g) | |
|-------|---|-----------------|----|------|------|------|------|----|------|-----|-----|-------------------------------|------------------|------------|----------------|
| | | Resistor body | | | | | | | | | | Standard heat sink (aluminum) | | | |
| | | Amax | B | Lmax | Hmax | C | I | I1 | M | N | Φ1 | Φ2 | Surface area cm2 | | thickness (mm) |
| RX24 | 5 | 155 | 16 | 36.5 | 8 | 8.5 | 11.4 | 12 | 4.4 | 1.5 | 1.5 | 2.2 | 415 | 1 | 3 |
| | 10 | 19.5 | 21 | 40.5 | 10 | 11.2 | 14 | 16 | 5 | 2 | 2 | 2.5 | 415 | | 6 |
| | 25 | 27 | 27 | 48.0 | 13 | 14.3 | 18.3 | 20 | 7 | 2 | 2 | 3.5 | 535 | | 11 |
| | 30 | 34 | 29 | 55.0 | 15.5 | 16.3 | 25 | 22 | 7.3 | 2 | 2 | 3.5 | 535 | | 18 |
| | 50 | 50 | 29 | 71 | 15.5 | 16.3 | 40 | 22 | 7.3 | 2 | 2 | 3.5 | 995 | | 30 |
| RXG24 | 75 | 65.5 | 48 | 93.5 | 26 | 27 | 23.5 | 37 | 11.5 | 3.5 | M3 | 4.4 | 995 | 3 | 90 |
| | 100 | 98 | 48 | 126 | 26 | 27 | 35 | 37 | 11.5 | 3.5 | M3 | 4.4 | 995 | | 160 |
| | 150 | 130 | 48 | 158 | 26 | 27 | 52 | 37 | 11.5 | 3.5 | M3 | 4.4 | 995 | | 240 |
| | 200 | 92 | 73 | 132 | 45 | 46.5 | 35 | 58 | 21 | 5 | M6 | 5.5 | 3750 | | 420 |
| | 250 | 112 | 73 | 152 | 45 | 46.5 | 45 | 58 | 21 | 5 | M6 | 5.5 | 4765 | | 480 |
| | 300 | 130 | 73 | 170 | 45 | 46.5 | 51 | 58 | 21 | 5 | M6 | 5.5 | 5780 | | 580 |
| | 500 | 204 | 73 | 244 | 45 | 46.5 | 87 | 58 | 21 | 5 | M6 | 5.5 | 8500 | 970 | |

Main Specifications

| model | Rated power (W) | | Resistance range (Ω) | Resistance tolerance (%) | Temperature coefficient (x10 ⁻⁶ /°C) | Insulation voltage (V) | Maximum overload voltage (V) |
|-------|-----------------|-------------------|----------------------|--------------------------|---|------------------------|------------------------------|
| | With heat sink | Without heat sink | | | | | |
| RX24 | 5 | 3 | 0.01Ω ~ 1KΩ | F(±1%) J(±5%) | ±100 ±50 | 1000 | 1500 |
| | 10 | 8 | 0.01Ω ~ 1.5KΩ | | | | |
| | 20 | 12.5 | 0.01Ω ~ 7.5KΩ | | | | |
| | 30 | 15 | 0.01Ω ~ 10KΩ | | | | |
| | 50 | 20 | 0.01Ω ~ 15KΩ | | | | |
| RXG24 | 75 | 45 | 0.01Ω ~ 20KΩ | | | | |
| | 100 | 50 | 0.01Ω ~ 24KΩ | | | | |
| | 150 | 55 | 0.01Ω ~ 30KΩ | | | | |
| | 200 | 55 | 0.01Ω ~ 36KΩ | | | | |
| | 250 | 60 | 0.01Ω ~ 39KΩ | | | | |
| | 300 | 75 | 0.01Ω ~ 47KΩ | | | | |
| | 500 | 200 | 0.01Ω ~ 51KΩ | | | 2000 | 3000 |

Main test items, test methods and performance requirements

| Test items | Performance requirements | experiment method |
|---------------------------------------|---|---|
| Temperature coefficient of resistance | ≤±100(x10 ⁻⁶ /°C) | -55°C/+20°C 20°C/+125°C |
| Lead-out strength | R≤±(1%R+0.05Ω) | Rally 40N |
| Withstand voltage | No breakdown or flashover | AC voltage, its peak value is 1.42 times the insulation voltage, 1min |
| Solderability | The solder can flow freely and wet with the bowwire | 235±5°C 2±0.5s |
| Resistance to welding heat | ΔR≤±(1%R+0.05Ω) | 260±5°C 10±1s |
| overload | ΔR≤±(1%R+0.05Ω) | 5 times rated power 5s |
| Rapid temperature change | ΔR≤±(1%R+0.05Ω) | -55°C/+125°C 5 cycles |
| vibration | ΔR≤±(1%R+0.05Ω) | 10 ~ 500Hz 98m/s2 |
| Surface temperature rise | ≤275°C | VR |
| Pulse tolerant | ΔR≤±(0.2%R+0.05Ω) | 10 times in 6 milliseconds |
| Long-term load | ΔR≤±(1%R+0.05Ω) | +25±2°C VR 1000h |
| Steady state damp heat | ΔR≤±(1%R+0.05Ω) | +40±2°C humidity 95 ~ 93% 240h |

From:
<https://www.euloxio.myds.me/dokuwiki/> - **Euloxio wiki**

Permanent link:
https://www.euloxio.myds.me/dokuwiki/doku.php/doc:tec:lab:prx_carga:resistencia_8_100:inicio

Last update: **2025/11/27 10:42**

