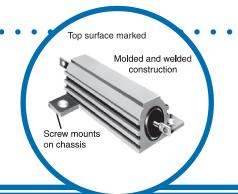
Chassis Mounted Power Wirewound Resistor



AL Series

- ±1% tolerance
- 5 watts to 50 watts
- 0.1 ohm to 180K ohm*
- · Non-inductive winding available
- · High thermal conductivity cores available
- · Lead Free RoHS Compliant Construction

*Values down to .01 ohms available. Contact factory with special applications.



Electrical Data

| IRC/SX Style** | MIL Equivalent | Power Rating @25°C (watts) | | Resistance (ohms) | | |
|-------------------|-------------------|----------------------------|-----|-------------------|------|----------|
| | | IRC/SX | MIL | Min. | Max. | Max. MIL |
| AL-5 | RE-60G | 7.5 | 5 | 0.1 | 16K | 3.32K |
| AL-10 | RE-65G | 12.5 | 10 | 0.1 | 25K | 5.62K |
| AL-25 | RE-70G | 25.0 | 20 | 0.1 | 55K | 12.1K |
| AL-50 | RE-75G | 50.0 | 30 | 0.1 | 180K | 39.2K |

^{*}All resistors have an operating temperature range of -55°C to +275°C. Derating is required for reduced chassis mounting area and for high ambient temperatures.

Power Rating:

5 to 50 watts depending upon style. 275°C maximum hotspot at 25°C ambient. Conforms to MIL-R-18546. 1% maximum ΔR in 1000 hour load life. Proper heat sinks are as follows:

4 x 5 x 2 x 0.040 aluminum chassis - AL-5 and AL-10

5 x 7 x 2 x 0.040 aluminum chassis - AL-25 and AL-50

Construction:

Windings are "controlled stress" wound on ground ceramic cores. Terminations are of welded construction. Terminals are electronically welded to the end caps for maximum strength and electrical continuity. A high temp. silicone encapsulation is used to mold the wound assembly within the anodized

Standard Temperature Coefficient of Resistance:

<1 ohm = ± 90 ppm

 \geq 1 ohm to <10 ohms = \pm 50 ppm

≥10 ohm = ±20 ppm

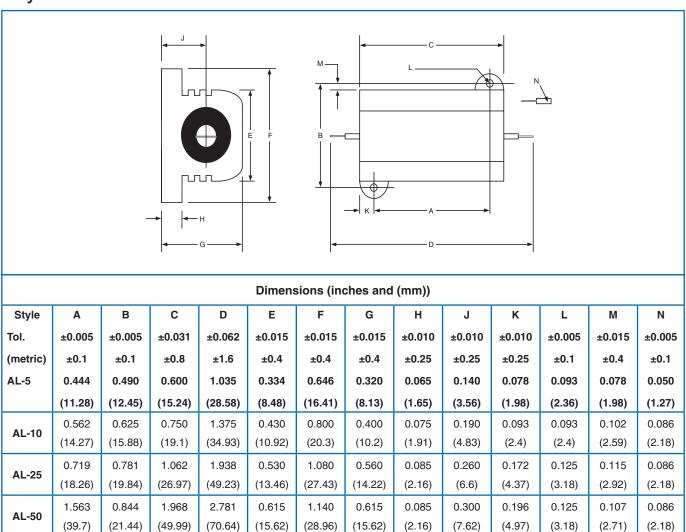


^{**}To order non-inductive styles add suffix N (e.g.:ALN-5). (Divide Max. Res. Values by styles available with extended resistance and tolerance ranges; contact factory.

Chassis Mounted Power Wirewound Resistor

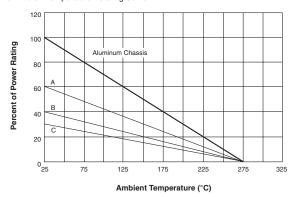


Physical Data



Power Derating Curve

AL resistors are rated to operate with a 275°C maximum hotspot under full rated power at 25°C ambient. They must be derated for higher ambient temperature per "Wattage vs. Ambient Temperature Derating Curve."



Ordering Data

