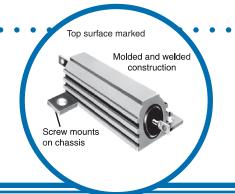
# Chassis Mounted Power Wirewound Resistor



#### **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

<sup>\*</sup>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  $\Delta R$  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 =  $\pm 90$  ppm

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

≥10 ohm = ±20 ppm

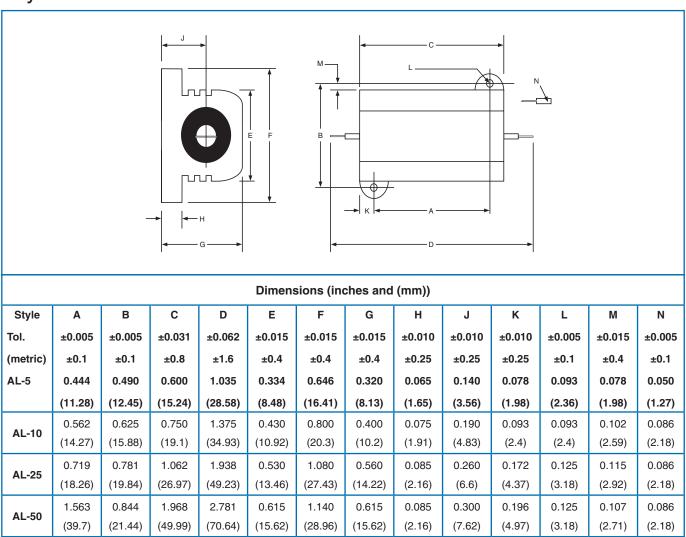


<sup>\*\*</sup>To order non-inductive styles add suffix N (e.g.:ALN-5). (Divide Max. Res. Values by styles available with extended resistance and tolerance ranges; contact factory.

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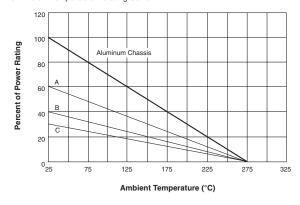


### Physical Data



## **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**

