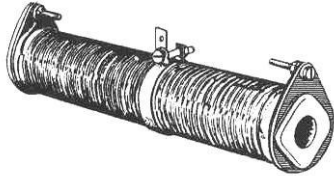


**SLA – ‘SURE’ Make Wire Wound Type Load Resistors.****FEATURES****SURE RESISTORS**

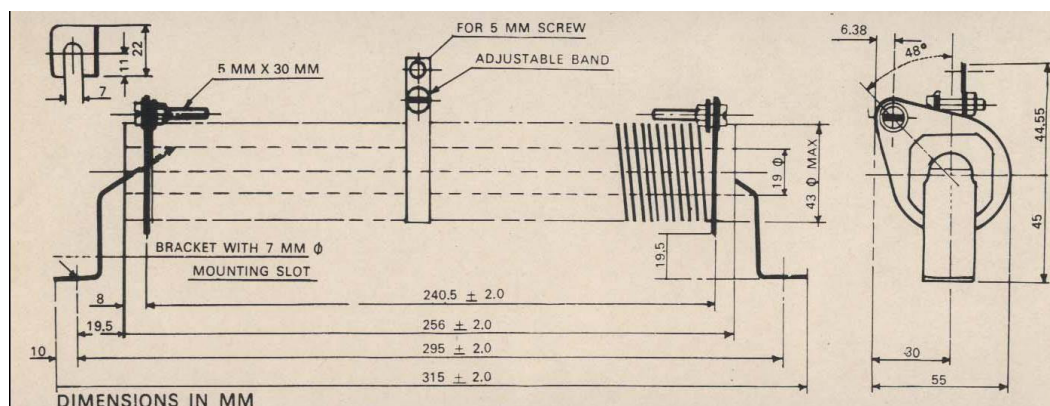
- Robust Construction.
- FeCrAl Wire
- High power to size ratio.
- Non smoking on excessive heating

**TECHNOLOGY**

Wire Wound Resistors: These are our standard resistors made out of continuous wire of suitable gauge, wound on a grooved ceramic base.

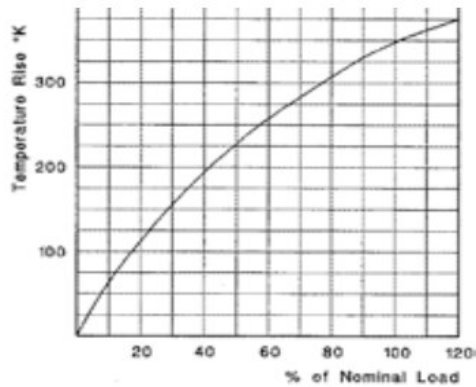
The numbers of wire wound resistors tubes are to be put in series to have the desired resistance. The dimension of the resistance stack depends on the number of tubes as shown in figure 2. For higher peak currents the stacks can be paralleled.

Max. Resistance per Tube - ohms	Maximum Current through Resistor - (Amps)	Max Surface Temperature on Continuous Load
1.5	20.0	350 °C
2.5	16.0	
3.0	14.0	
5.0	11.0	
7.5	9.0	
10.0	8.0	

**MECHANICAL DATA****Fig 2**

**ELECTRICAL CHARACTERISTICS****DERATING**

The power that the resistor can dissipate depends on the operating temperature:



Temperature Rise at constant Load

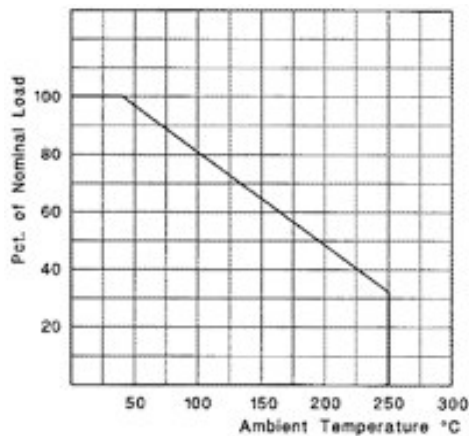


Fig - Maximum dissipation (Pmax) in percentage of rated power as a function of the ambient temperature (Tamb)

**APPLICATION INFORMATION**

These resistors are widely used in continuous load testing setups like battery testing, Inverter / Generator testing, etc..

Also these resistors are used in Dynamic braking application which is the simplest and very widely used method of braking a load driven through a d.c motor as it involves no wear and tear unlike with mechanical brakes. For dynamic braking, the motor armature is closed on a suitably designed Dynamic Braking Resistor (DBR), while the motor field remains energized. The kinetic energy stored in motor and load gets dissipated in the DBR and the system comes to a halt within a few seconds.

**SURE RESISTORS**

116-117, Manish Industrial Estate No 2, Navghar Road, Vasai (East), Thane: 401210

Telefax: (0250) 2391542 / 2391161, Resi: (022) 28926425, Mob: 09987062657

Email: [marketing@sureresistors.com](mailto:marketing@sureresistors.com), URL: [www.sureresistors.com](http://www.sureresistors.com)