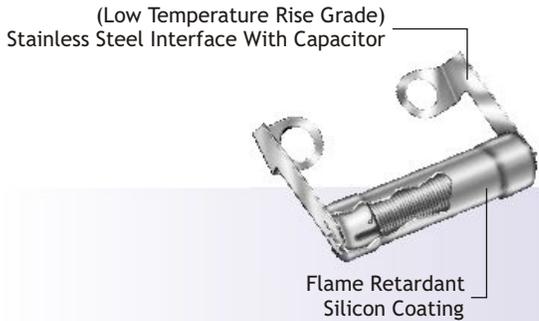


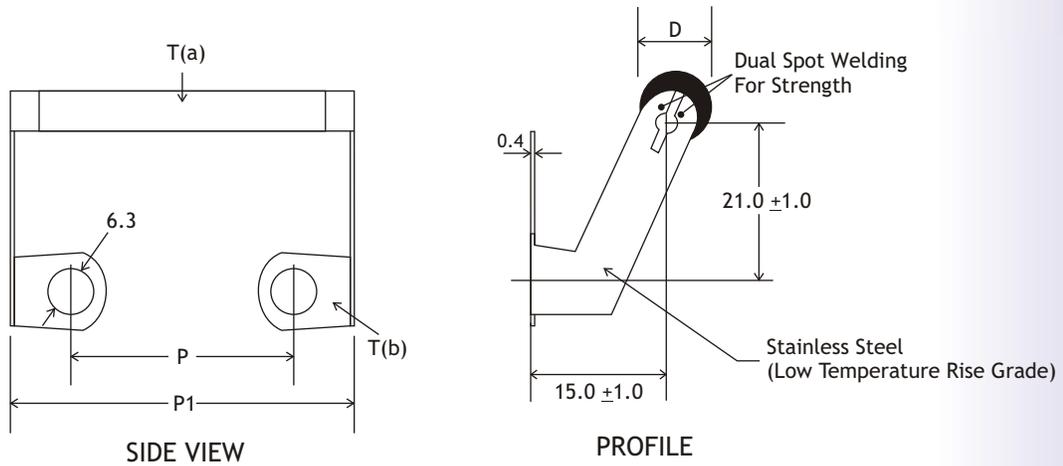


HSR SERIES

SYMMETRY WIRE WOUND RESISTORS High Power Capacitor Discharge Resistors



PHYSICAL CONFIGURATION



| HTR TYPE | POWER RATING AT 70°C | DIMENSIONS (mm) | | | TEMPERATURE AT FULL POWER ON BODY T(a) & ON INTERFACE WITH CAPACITOR T(b) [AMB TEMP 30°C] | | RESISTANCE RANGE | | TYPICAL WT. PER PC. (gms) |
|----------|----------------------|-----------------|--------|----------|---|------|------------------|-----|---------------------------|
| | | D ±1.0 | P ±1.0 | P1 (max) | T(a) | T(b) | min | max | |
| SR8 | 8.25W | 9.65 | 22.30 | 38.0 | 260°C | 57°C | 10K | 56K | 8.50 |
| SR11 | 11.0W | 9.65 | 31.85 | 49.0 | 264°C | 59°C | 10K | 70K | 10.0 |

*Resistance value lower than the above are possible on request.



ELECTRICAL AND ENVIRONMENTAL CHARACTERISTICS / DATA

| Test | Performance Requirements |
|--|--|
| Resistance tolerance | $\pm 10\%$ [K]; $\pm 5\%$ [J]; $\pm 3\%$ [H]; $\pm 2\%$ [G]; $\pm 1\%$ [F] |
| Rated ambient temperature | at 70°C full power dissipation. Derated linearly to zero at 350°C |
| Insulation resistance | > 1000 M dry > 100 M wet |
| Temperature co-efficient of resistance | $\pm 25\text{ppm}$ to $\pm 130\text{ppm}/^\circ\text{C}$ (Depending on resistance value) |
| Short time overload | $R \pm [2\%+R05]$ |
| Load life | $R \leq 5\% \pm [R05]$ |
| Ambient operating temperature range. | -40°C to +155°C |

TYPICAL APPLICATIONS

- These high power wire wound resistors have low temperature rise stainless steel mounting lugs fitted to them at a pitch which is ideally suitable to mount on capacitors and are used mainly for voltage balancing of aluminium electrolytic capacitors connected in series.
- These resistors are also used in safety applications; wherein they have been found suitable for capacitor voltage discharge applications in high voltage circuits.
- For certain special applications we can provide these symmetry resistors in ceramic encased style having power ratings of 15W & 20W, please consult the factory for datasheet.

ORDERING INFORMATION

