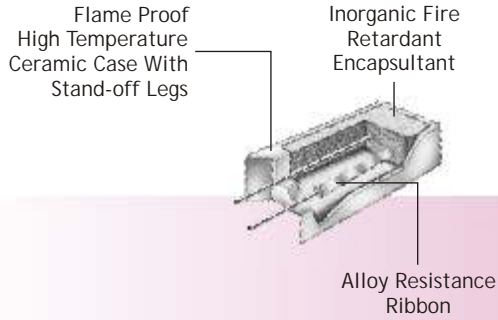




HMVL SERIES

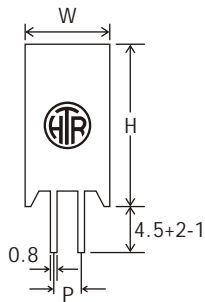
SPACE SAVER

Slim Type Vertical Mounting



- Especially designed for crowded PCB's
- Ceramic stand-off's

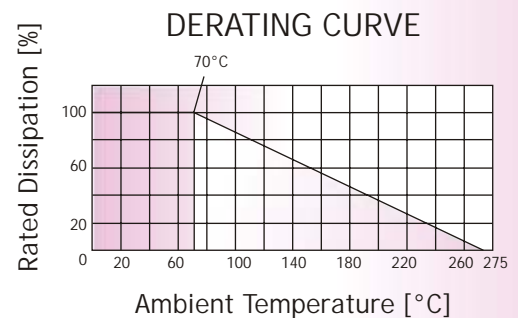
PHYSICAL CONFIGURATION



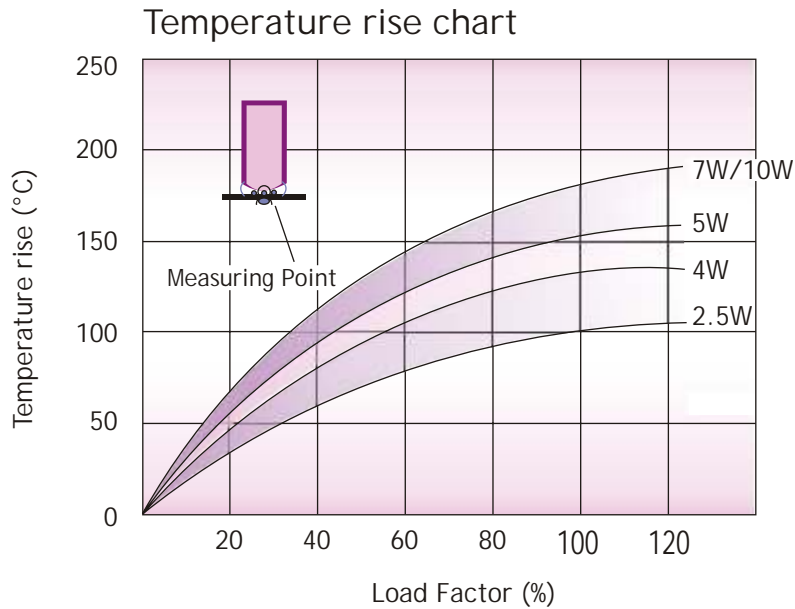
| HTR TYPE | POWER RATING at 70°C | DIMENSIONS (mm) | | | | RESISTANCE RANGE | | TYPICAL WT. PER PC [gms] |
|----------|----------------------|-----------------|------|------|------|------------------|------|--------------------------|
| | | W ±1 | H ±1 | D ±1 | P ±1 | min | max | |
| M2L | 2.5W | 11.0 | 20.5 | 7.0 | 5.0 | R004 | R063 | 3.5 |
| M4L | 4W | 12.0 | 25.0 | 7.0 | 5.0 | R004 | R063 | 4.5 |
| LV5L | 5W | 13.0 | 25.5 | 9.0 | 5.0 | R005 | R09 | 6.0 |
| M7L | 7W | 12.5 | 38.0 | 9.0 | 5.0 | R006 | R10 | 7.0 |
| LV10L | 10W | 16.0 | 35.0 | 12.0 | 7.5 | R006 | R10 | 14.5 |

ELECTRICAL AND ENVIRONMENTAL CHARACTERISTICS / DATA

| Test | Performance Requirements |
|--|--|
| Resistance tolerance | ± 10% [K]; ± 5% [J]; ±3% [H]; ±2% [G]; ±1%[F] |
| Rated ambient temperature [see derating curve] | at 70°C full power dissipation |
| Temperature co-efficient | ± 80 to ± 550 ppm/ °C depending upon resistance value and power rating (measured from -55°C to +125°C referenced to +25°C) |
| Short time overload | Max R± 2% |
| Moisture Resistance | Max R± 3% [average] |
| Load life | Max R± 5% [average] |
| Ambient operating temperature range. | -40°C to +155°C |
| Insulation resistance | > 1000 M [minimum] |



TEMPERATURE RISE AT SOLDER JOINT (AT FULL POWER)



TYPICAL APPLICATION

These resistors find wide application in Inverters and Power supplies.

Due to the nature of their construction, they can withstand surges quite efficiently. Please refer to "Understanding pulse & over load capability of resistors".

In case a tailor made pulse resistor is required, please refer [Questionnaire of data](#) and provide data accordingly.

The HMVL series offers a practical solution to current sensing applications where PCB space is at a premium and low inductance is required. Please ensure that resistance value is checked using 4½ digit micro ohm meter with 4 wire system and insulated clips.

For the effective utilisation of these resistors, please refer "[Applications / Design notes for current sense resistors](#)".

Note : 1) Type LV10L can be provided with 1.0mm leads if required, please specify at the time of placing of the order.

- 2) Due to recent technological advances, the ceramic cases used may be steatite ceramic or cordierite ceramic or high alumina ceramic depending on the nature of the application. Hence the ceramic cases may be off-white or variations of brown and variations of grey; colours which are inherent to these ceramic materials.

ORDERING INFORMATION

