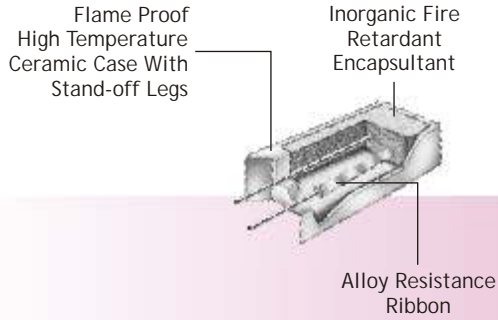




# HMVL SERIES

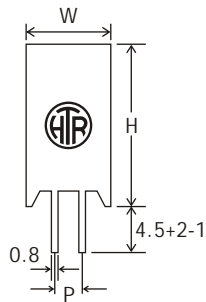
## SPACE SAVER

Slim Type Vertical Mounting



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

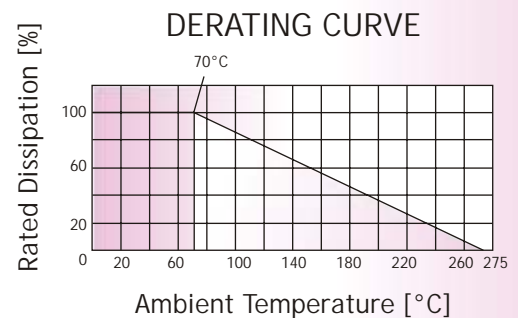
### PHYSICAL CONFIGURATION



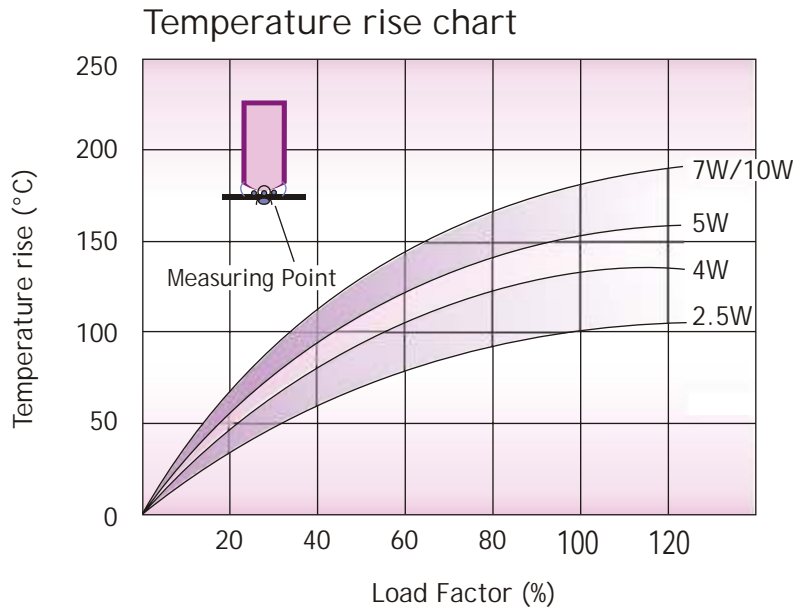
HTR TYPE	POWER RATING at 70°C	DIMENSIONS (mm)				RESISTANCE RANGE		TYPICAL WT. PER PC [gms]
		W ±1	H ±1	D ±1	P ±1	min	max	
M2L	2.5W	11.0	20.5	7.0	5.0	R004	R063	3.5
M4L	4W	12.0	25.0	7.0	5.0	R004	R063	4.5
LV5L	5W	13.0	25.5	9.0	5.0	R005	R09	6.0
M7L	7W	12.5	38.0	9.0	5.0	R006	R10	7.0
LV10L	10W	16.0	35.0	12.0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

