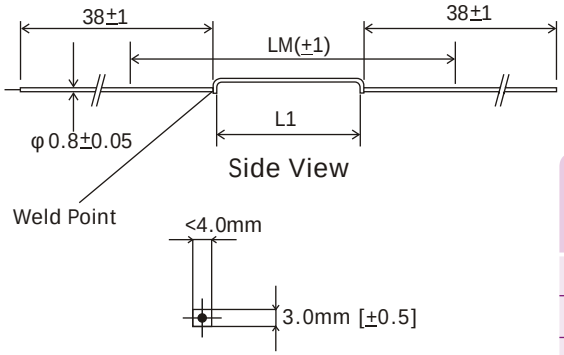
OA/OP SERIES

OPEN FRAME

Low Inductance Axial / PCB Mounting

- 1 Watt To 3 Watts
- R 003 To R 10

PHYSICAL CONFIGURATION

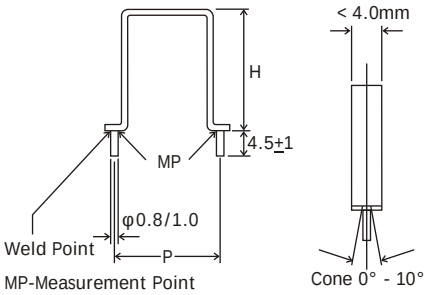


Profile Dimensions

OA SERIES (AXIAL)

HTR TYPE	POWER RATING AT 70°C	DIMENSIONS (mm)		RESISTANCE RANGE		TYPICAL WT PER PC (gms)
		L1	LM	min	max	
OA-1	1W	11 to 15	40	R003	R051	0.5
OA-2	2W	16.3 to 22.5	45	R0041	R068	0.6
OA-3	3W	28 to 35.5	60	R0056	R10	0.7

Note : Resistance values must be checked using 4½ digit micro ohm meter with four wire system and insulated clips, which should be attached to the resistor leads over centered length "LM" in the case of OA series and at the weld points in OP series.



Side View Profile Dimensions

Note : For 0.5W to 1.5W the terminations will be tin plated copper φ0.8mm.
For 3W the terminations will be tin plated copper φ1.0mm

OP SERIES (PCB MOUNTING)

HTR TYPE	POWER RATING AT 70°C	DIMENSIONS (mm)		RESISTANCE RANGE		TYPICAL WT PER PC (gms)
		P ±1mm	H (max)	min	max	
OP-0.5	0.5W	10.0	7.0	R003	R051	0.3
OP-1	1W	10.0	11.0	R0041	R068	0.4
OP-1A	1W	15.0	9.0	R0041	R068	0.4
OP-1.5	1.5W	10.0	17.5	R0056	R10	0.5
OP-1.5A	1.5W	15.0	15.5	R0056	R10	0.5
OP-1.5B	1.5W	20.0	12.5	R0056	R10	0.5
OP3	3W	10.0	18.0	R0056	R10	0.55
OP3A	3W	15.0	16.0	R0056	R10	0.55
OP3B	3W	20.0	13.0	R0056	R10	0.55

ELECTRICAL AND ENVIRONMENTAL CHARACTERISTICS / DATA

Test	Performance Requirements
Resistance tolerance	±10% [K]; ±5% [J]; ±3% [H]; ±2% [G]; ±1% [F]
Rated ambient temperature	at 70°C full power dissipation
Insulation resistance	Nil
Temperature co-efficient	± 200 ppm/ °C to ± 1200 ppm/ °C depending on resistance value and power rating. (measured from - 55°C to 125°C, referenced to +25°)
Short time overload	Max ΔR±1.5%
Moisture resistance	Max ΔR±0.5%
Load life	Max ΔR±3% (Average)
Ambient operating temperature range	-40°C to +155°C

TYPICAL APPLICATIONS

The OA/OP series offer a non insulated - non-inductive resistor having high stability/overload capacity. The tin plated copper terminals are butt welded to the alloy resistive element forming a very reliable all welded construction which is finding increasing usage in switching and linear power supplies, instruments, regulators and other modern current sensing circuits.

For the effective utilisation of these resistors, please refer "Applications / Design notes for current-sense resistors".

MARKING

Due to the nature of their construction these resistors cannot be marked with all relevant details on the resistive element, however resistance value, tolerance and date code will be marked on the device. All other relevant details will be on the packing box.
For complete details please refer to marking specifications.

ORDERING INFORMATION