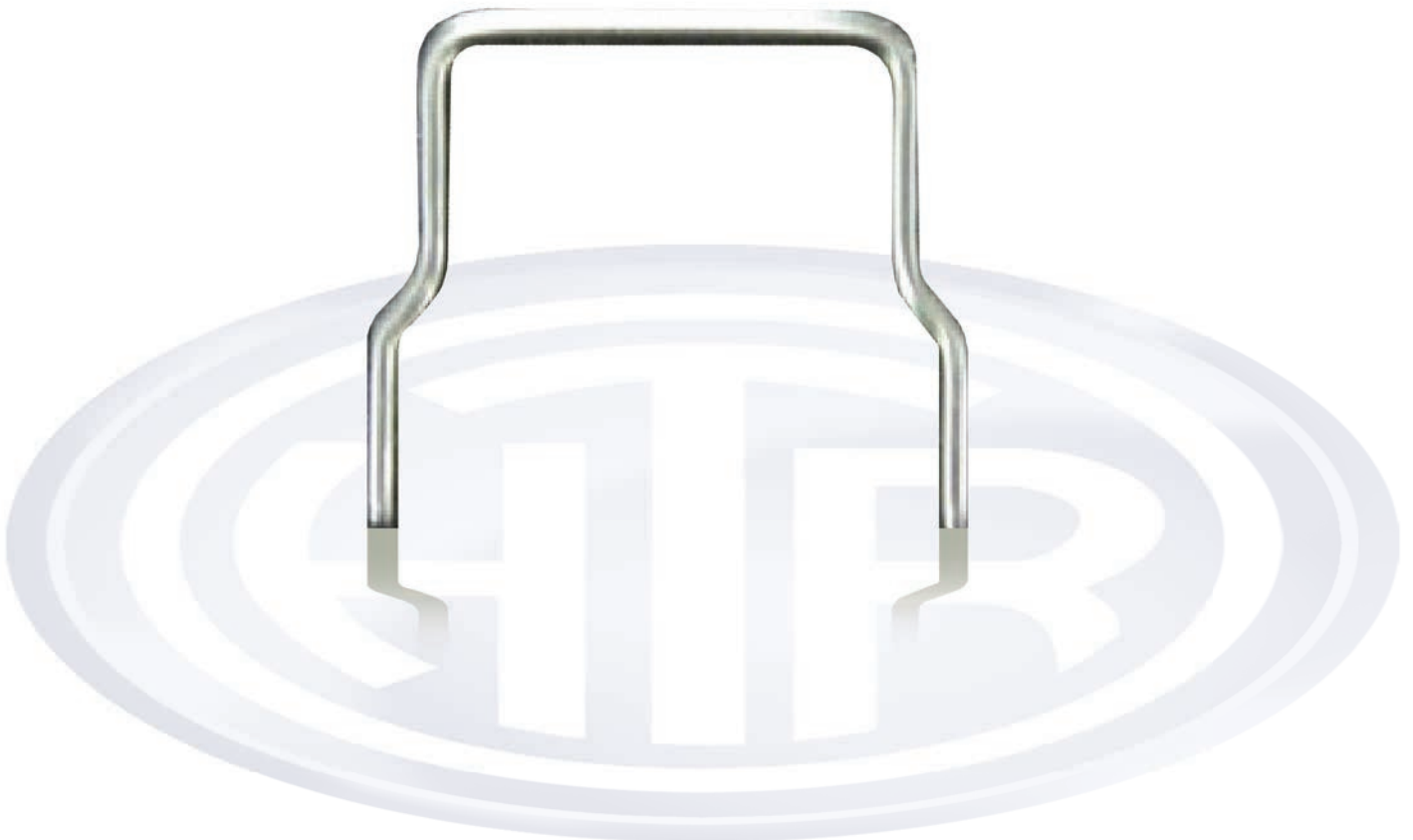




LOW OHM POWER RESISTORS  
OPEN FRAME WIRE TYPE

**OW**  
SERIES

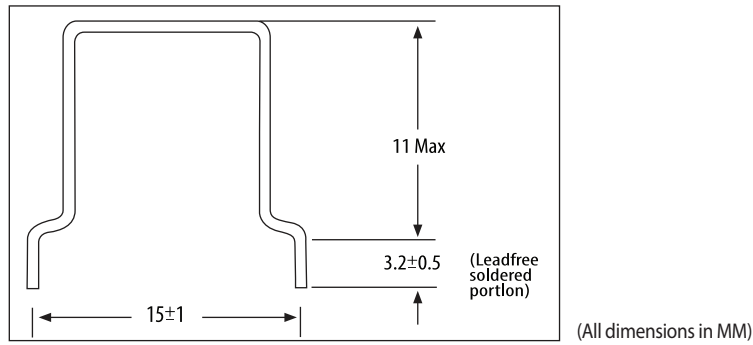
- Power Rating at - 25° C. - Upto 1.5 W
- Power Rating at - 70° C. - Upto 0.7 W
  - R015 to R16
- Customer Specified versions are possible on request





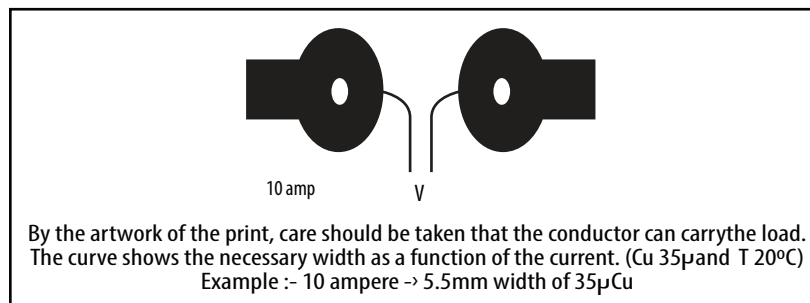
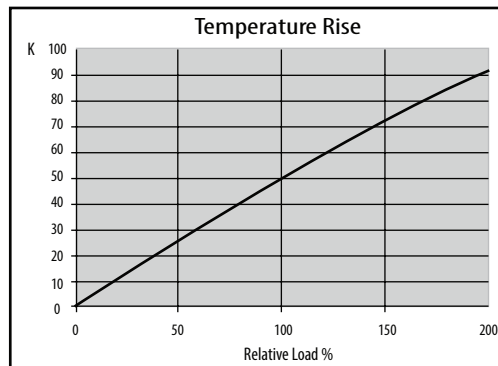
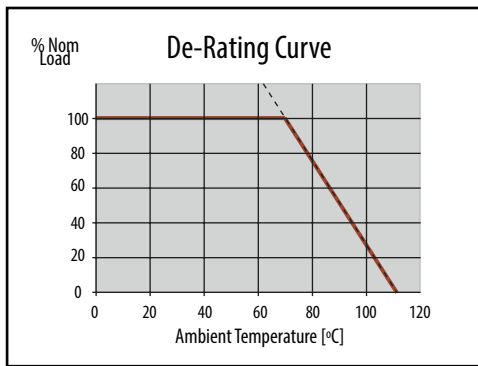
LOW OHM  
POWER  
RESISTORS  
OPEN FRAME  
WIRE TYPE-  
**OW**  
SERIES

**PHYSICAL CONFIGURATION**



**DIMENSIONAL TABLE**

HTR TYPE	POWER RATING AT 25°C	POWER RATING AT 70°C	Current 'I' drawn in Amp when 100mV voltage is applied	Maximum Energy (J)	P.C.B. HOLE DIAMETER (mm)	RESISTANCE VALUE (Ohms)	WEIGHT PER PC (gms)
OW1.5	1.5W	0.7W	6.67	14	1.3	R015	0.27
OW1.2	1.2W	0.6W	4.54	8.4	1.0	R022	0.19
OW1.2	1.2W	0.6W	3.03	7.3	1.0	R033	0.195
OW1.2	1.2W	0.6W	2.13	5.7	0.80	R047	0.136
OW1	1.0W	0.6W	1.47	3.9	0.80	R068	0.09
OW1	1.0W	0.6W	1.0	2.4	0.80	R10	0.065
OW1	1.0W	0.6W	0.77	2.3	0.80	R13	0.044
OW1	1.0W	0.6W	0.71	2.2	0.80	R14	0.045
OW1	1.0W	0.6W	0.67	2.1	0.80	R15	0.045
OW1	1.0W	0.6W	0.63	2.0	0.80	R16	0.04



**APPLICATIONS :**

- In switching and linear power supplies, instruments, regulators.
- In modern current sensing circuits.



LOW OHM  
POWER  
RESISTORS  
OPEN FRAME  
WIRE TYPE-  
**OW**  
SERIES

## ELECTRICAL AND ENVIRONMENTAL CHARACTERISTICS

PARAMETER / PERFORMANCE TEST & TEST METHOD	PERFORMANCE REQUIREMENTS
<b>Power Rating</b>	Full power dissipation at 70° C & linearly derated to zero at 110° C.
<b>Insulation</b>	Not insulated
<b>Resistance Tolerance Available</b> (Can be achieved when soldering in a plated through hole circuit board )	± 10% (K); ± 5% (J)
<b>Temperature Range</b>	- 55° C to +110° C with suitable derating as per derating curve above
<b>Voltage Rating / Limiting Voltage / Max. Working Voltage</b>	$\sqrt{P \times R}$
<b>Short Time Overload</b> (5 x Rated power for 5 secs)	$\Delta R \pm (0.75\% + R0005)$ - Average $\Delta R \pm (1.25\% + R0005)$ - For resistance values near maximum range
<b>Temperature Co-efficient of Resistance</b> (Measured from -55° C to + 125° C referenced to +30° C)	± 400 ppm/° C & Below- (Depend on Resistance wire used)
<b>Operating Temperature</b>	-65° C to 110° C (Suitably derated)

## PACKAGING

1000 Resistors shall be packed in small box "I Type" of approximate size 70mm x 70mm x 70mm & such 8 Boxes of "I Type" will be packed in Master Carton of approx size 310mm x 205mm x 95mm

### Storage Condition (Packed) :

Temp 25°C to 35°C, Humidity 30 to 80% RH, Shelf life- 6 months

### Floor Life (Unpacked) :

Temp 25°C to 35°C, Humidity 30 to 80% RH, Floor life-15 days

### Resistance Material Data :

CuNi23Mn, CuNi44

## ORDERING INFORMATION

SERIES	TYPE	PACKING	RESISTANCE VALUE	TOLERANCE
OW	OW1.2 / OW1.2*	Bulk - OW1.2 / OW1.2*	R033	J

For RoHs version - OW1.2