



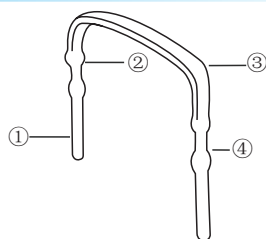
## ● Features

- Welded Construction
- Flameproof
- Inductance Less Than 10 Nanohenres
- Solderable Copper Leads

## ● Applications

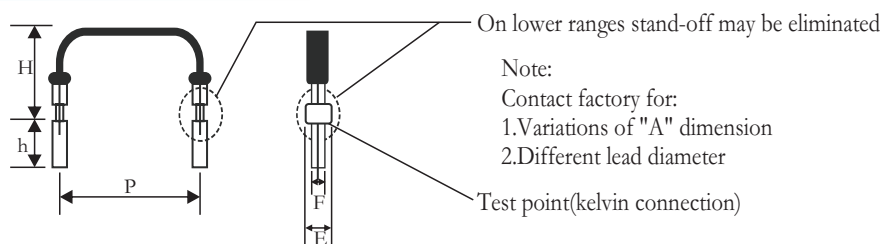
- Current Sensing
- Feedback
- Low Inductance
- Surge And Pulse

## ● Construction



①	Tin plated Copper leads
②	Weld point
③	Resistive element
④	Stand-off

## ● Dimensions



Type	P	H	h	E	F
OAR-1	11.43+1.020/-0.508	5.08 ± 2.54	3.18 ± 0.762	1.65+0.254/-0.127	1.02 ± 0.051
OAR-3	15.24+1.020/-0.50	25.4max	3.18 ± 0.762	1.65+0.254/-0.127	1.02 ± 0.051
OAR-5	20.32+1.020/0.50	25.4max	3.18 ± 0.762	1.65+0.254/-0.127	1.02 ± 0.051

## ● Ordering Information

Example:

OAR	1	F	R01	C
(1)	(2)	(3)	(4)	(5)
Series Name	Power Rating	Resistance Tolerance	Resistance Value	TCR

(1)Type:OAR SERIES

(2)Power Rating: 1=1W、 3=3W、 5=5W

(3)Tolerance: F= ± 1%、 G= ± 2%、 H= ± 3%、 J= ± 5%、 K= ± 10%

(4)Resistance Value:R01=0.01Ω、 R003=0.003Ω

(5)TCR: ± 20ppm/°C

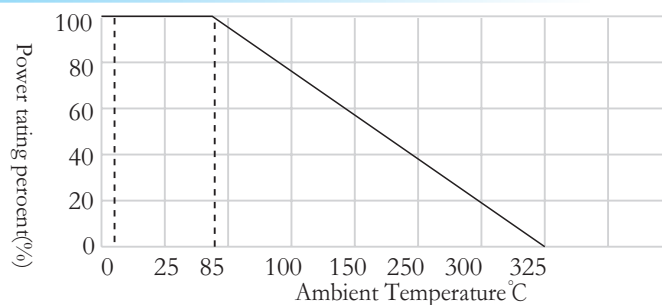
## ● Reference Standards

IEC 60115-1

## Applications And Ratings

Type	Power rating at 85°C	Resistance Value	
		MIN.	MAX.
OAR-1	1W	R003	R10
OAR-3	3W	R0025	R10
OAR-5	5W	R003	R05

## Derating Curve



## Performance Characteristics

Parameter / Performance Test & Test Method	Performance Requirements
Power Rating (Rated Ambient Temperature )	Full power dissipation at 85 °C and linearly derated to zero at +325 °C
Insulation	Not Insulated
Resistance Tolerance	±10%[K]; ±5%[J]; ±3%[H]; ±2%[G]; ±1%[F]
Temperature Range	-55 °C to +325 °C with suitable derating as per derating curve above
Voltage Rating / Limiting Voltage / Max. Working Voltage	$\sqrt{P \times R}$
Short time Overload (5 x Rated Power for 5 Secs.)	$\Delta R \pm [ 0.75 \%R0 + R0005 ]$ - Average $\Delta R \pm [ 1.25 \% R0 + R0005 ]$ - For resistance values near maximum range
Temperature Co-efficient of Resistance (Measured from -55 °C to +125 °C referenced to +30 °C)	TCR To ±20 ppm/ °C [ Depending on resistance value ]
Damp Heat (Steady State ) ( 40 °C at 93 % R.H. for 1000 Hrs. – no load applied )	$\Delta R \pm [ 0.5 \%R0 + R0005 ]$ – Average
Endurance – Load Life [ 70 °C with limiting voltage -1.5 hours on / 0.5 hours off for 1000 hours ]	$\Delta R \pm [ 2.0 \%R0 + R0005 ]$ -Average
Resistance to Soldering heat - (260°C-270°C for 10 Secs)	$\Delta R \pm [ 0.2 \%R0 + R0005 ]$ -Typical
Solderability ( As per IEC pub. 60068-2-20 )	Must meet the requirements laid down