



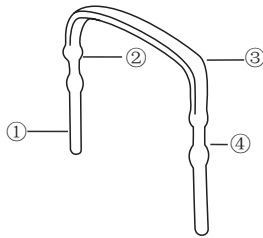
Features

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

Applications

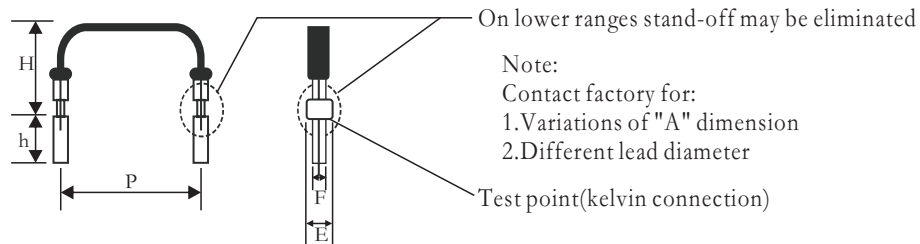
- Current Sensing
- Feedback
- Low Inductance
- Surge And Pulse

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	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:R10=0.01Ω、 R003=0.003Ω

(5)TCR: ±20ppm/°C

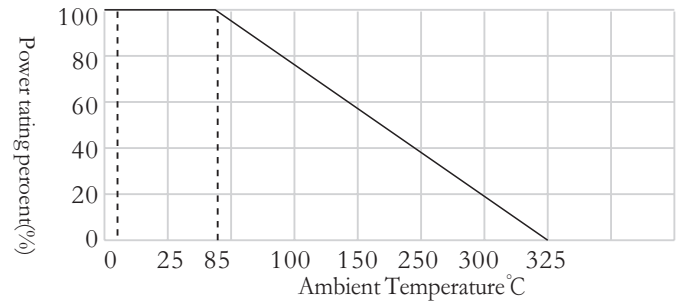
Reference Standards

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.)	$\Delta R \pm [0.75 \% + R0005]$ - Average $\Delta R \pm [1.25 \% + R0005]$ - 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)	$\Delta R \pm [0.5 \% + R0005]$ – Average
Endurance – Load Life [70°C with limiting voltage -1.5 hours on / 0.5 hours off for 1000 hours]	$\Delta R \pm [2.75 \% + R0005]$ -Average
Resistance to Soldering heat - (260°C-270°C for 10 Secs)	$\Delta R \pm [0.2 \% + R0005]$ -Typical
Solderability (As per IEC pub. 60068-2-20)	Must meet the requirements laid down