

# OMR 低阻值电阻



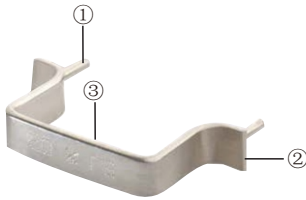
## Features

- Welded construction
- Flameproof
- Inductance less than 10  $\mu$ h
- Solderable copper leads

## Applications

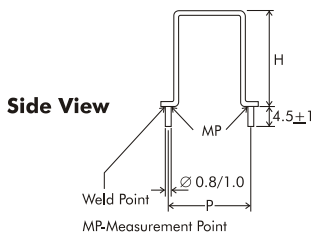
- Current sensing
- Low inductance
- Surge and pulse

## Construction

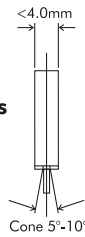


①	Tin plated Copper leads
②	Weld point
③	Resistive element

## Dimensions



Profile Dimensions



Type	Power rating at 85°C	Dimensions (mm)	
		P $\pm$ 1.0	Hmax
OMR-0.5	0.5W	10.0	7.0
OMR-1	1W	10.0	11.0
OMR-1A	1W	15.0	9.0
OMR-1.5	1.5W	10.0	17.0
OMR-1.5A	1.5W	15.0	15.5
OMR-1.5B	1.5W	20.0	12.5
OMR-3	3W	10.0	18.0
OMR-3A	3W	15.0	16.0
OMR-3B	3W	20.0	13.0
OMR-5W	5W	20.0	26.0

Note:

- For 0.5W - 1.5W the terminations will be tin plated copper  $\varnothing 0.8\text{mm}$ .
- For 3W - 5W the terminations will be tin plated copper  $\varnothing 1.0\text{mm}$ .

## Ordering Information

Example:

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

(1)Type:OMR SERIES

(2)Power Rating: 1=1W、3=3W、5=5W

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

(4)Resistance Value:R10=0.01 $\Omega$ 、R003=0.003 $\Omega$

(5)TCR:  $\pm 20\text{ppm}/^{\circ}\text{C}$

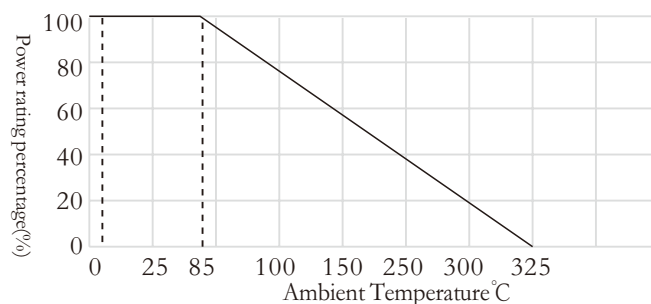
## Reference Standards

IEC 60115-1

## Applications And Ratings

Type	Power rating at 85°C	Resistance Range	
		min.	max.
OMR-0.5	0.5W	R003	R051
OMR-1	1W	R003	R068
OMR-1A	1W	R0022	R068
OMR-1.5	1.5W	R002	R10
OMR-1.5A	1.5W	R002	R10
OMR-1.5B	1.5W	R002	R10
OMR-3	3W	R002	R10
OMR-3A	3W	R002	R10
OMR-3B	3W	R002	R10
OMR-5W	5W	R0015	R10

## 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 Coefficient of Resistance (Measured from -55°C to +125°C referenced to +30°C)	TCR To $\pm 20$ 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 ]	$\Delta R \pm [2.75 \%R0 + R0005]$ -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