

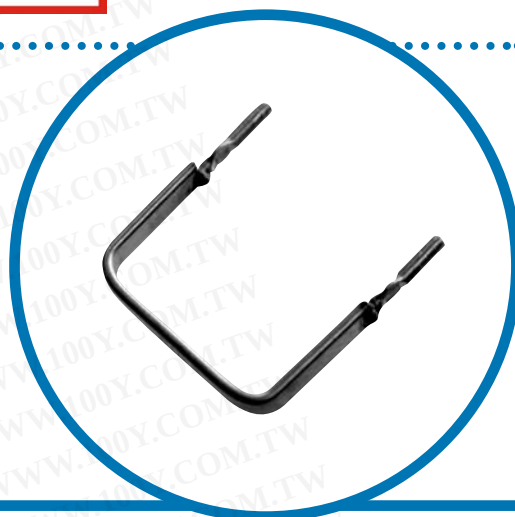
# Open Air Sense Resistors

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-34970699  
 勝特力电子(深圳) 86-755-83298787  
 Http://www.100y.com.tw



## OAR Series

- 1, 3 and 5 watts
- $\pm 1\%$  or  $\pm 5\%$  tolerance
- Resistance wire TCR  $\pm 20$  ppm/ $^{\circ}\text{C}$
- Resistance values down to 0R005 ohms



## Electrical Data

|                      |       | OAR-1          | OAR-3         | OAR-5         |
|----------------------|-------|----------------|---------------|---------------|
| Power rating at 85°C | watts | 1              | 3             | 5             |
| Resistance range     | ohms  | 0R005* to 0.10 | 0R005 to 0.10 | 0R005 to 0.05 |

\* Contact factory for values below 0R005 ohms

## Physical Data

| Dimensions (mm) |                     |                 |                  |                    |                  |
|-----------------|---------------------|-----------------|------------------|--------------------|------------------|
| Type            | A                   | B               | C                | E                  | F                |
| OAR-1           | 11.43 +1.020/-0.508 | 5.08 $\pm 2.54$ | 3.18 $\pm 0.762$ | 1.65 +0.254/-0.127 | 1.02 $\pm 0.051$ |
| OAR-3           | 15.24 +1.020/-0.50  | 25.4 max.       | 3.18 $\pm 0.762$ | 1.65 +0.254/0.127  | 1.02 $\pm 0.051$ |
| OAR-5           | 20.32 +1.020/-0.50  | 25.4 max.       | 3.18 $\pm 0.762$ | 1.65 +0.254/-0.127 | 1.02 $\pm 0.051$ |

On lower ranges stand-off may be eliminated

NOTE:  
 Contact factory for:  
 1. Variations of 'A' dimension  
 2. Different lead diameter

Test Point (Kelvin connection)

### General Note

TT electronics reserves the right to make changes in product specification without notice or liability.  
 All information is subject to TT electronics' own data and is considered accurate at time of going to print.



www.bitechnologies.com www.irctt.com www.welwyn-tt.com

## Height Standards

All Resistances are in ohms. All Tolerances are  $\pm 2.54$ . Dimensions (mm)

| OAR-1      |               |
|------------|---------------|
| Resistance | 0.005 - 0.100 |
| Height     | 5.080         |

| OAR-3      |        |        |        |        |        |        |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Resistance | 0.005  | 0.010  | 0.015  | 0.020  | 0.025  | 0.030  | 0.040  | 0.050  | 0.070  | 0.080  | 0.10   |
| Height     | 16.002 | 16.510 | 16.510 | 17.018 | 22.098 | 22.860 | 16.002 | 18.288 | 22.860 | 21.590 | 22.860 |

| OAR-5      |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|
| Resistance | 0.005  | 0.010  | 0.015  | 0.020  | 0.025  |
| Height     | 15.240 | 19.304 | 19.304 | 22.860 | 22.860 |

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## Performance Data

|                                                 |              | Maximum change |
|-------------------------------------------------|--------------|----------------|
| Load life: 1000 hrs at 25°C                     | $\Delta R\%$ | 1              |
| Moisture No Load 100 hrs                        | $\Delta R\%$ | 1              |
| Temperature Cycle at -40°C & +125°C (1000 cyc): | $\Delta R\%$ | 1              |

### Features

- Welded Construction
- Flameproof
- Inductance less than 10 nanohenries
- Solderable copper leads

### Applications

- Current Sensing
- Feedback
- Low inductance
- Surge and pulse

## Ordering Procedure

Example: OAR3 at 10 milliohms and 5% tolerance in bulk pack -

**OAR3 - R01JI**

Type \_\_\_\_\_

Value (use IEC62 code) \_\_\_\_\_

Tolerance (use IEC62 code) \_\_\_\_\_

|   |    |
|---|----|
| F | 1% |
| J | 5% |

Packing \_\_\_\_\_

|   |      |          |
|---|------|----------|
| I | Bulk | Standard |
|---|------|----------|

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