

# Open Air Sense Resistors Metal Alloy Strip

OAR TP Series

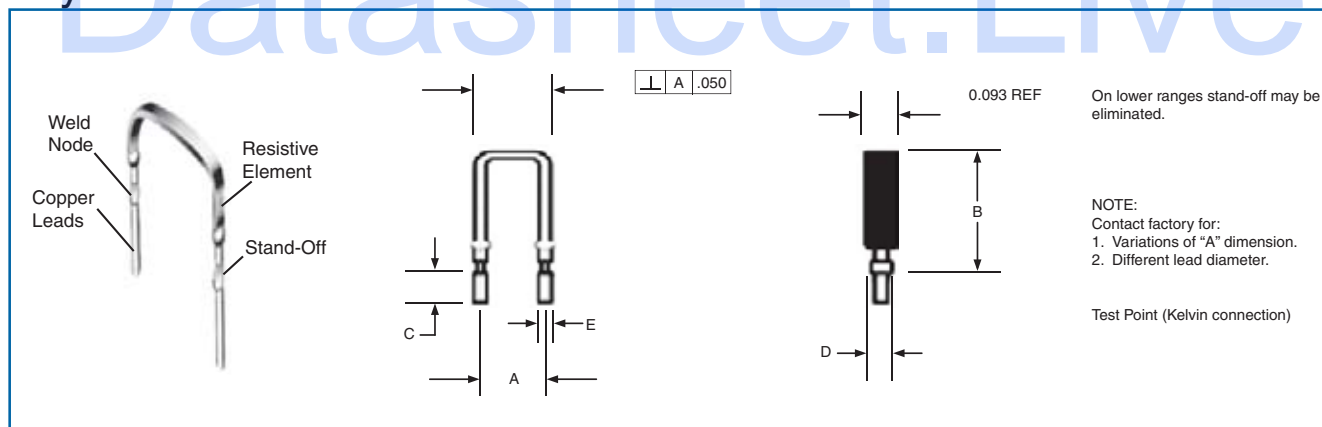
- Superior surge performance
- Hot spot isolated from PCB material
- Resistance wire TCR  $\pm 20\text{ppm}/^{\circ}\text{C}$
- $\pm 1\%$  or  $\pm 5\%$  tolerance (2% below 5mOhm)
- Lead Free RoHS compliant construction available



## Electrical Data

IRC Type	Power Rating (watts)	Available Resistance (ohms)
OAR-1TP	1W @ 85°C	0.003 ohms to 0.10 ohms
OAR-3TP	3W @ 85°C	0.0025 ohms to 0.10 ohms
OAR-5TP	5W @ 85°C	0.003 ohms to 0.050 ohms

## Physical Data



Dimensions (Inches and (mm))						
IRC Type	Resistance (Ohms)	A	B	C	E	F
OAR-1TP	0.003 - 0.10	0.197 +0.040/-0.031 (5.0 +1.0/-0.8)	0.300 max (7.8)	0.125 $\pm$ 0.100 (5.08 $\pm$ 2.54)	0.065 +0.010/-0.005 (1.65 +0.25/-0.13)	0.040 $\pm$ 0.002 (1.02 $\pm$ 0.051)
OAR-3TP	<0.005	0.275 +0.040/-0.031 (7.0 +1.0/-0.8)	1.00 max (25.4)	0.125 $\pm$ 0.100 (5.08 $\pm$ 2.54)	0.065 +0.010/-0.005 (1.65 +0.25/-0.13)	0.040 $\pm$ 0.002 (1.02 $\pm$ 0.051)
	0.005 - 0.10	0.197 +0.040/-0.031 (5.0 +1.0/-0.8)	1.00 max (25.4)	0.125 $\pm$ 0.100 (5.08 $\pm$ 2.54)	0.065 +0.010/-0.005 (1.65 +0.25/-0.13)	0.040 $\pm$ 0.002 (1.02 $\pm$ 0.051)
OAR-5TP	0.003 - 0.050	0.275 +0.040/-0.031 (7.0 +1.0/-0.8)	1.10 max (27.9)	0.125 $\pm$ 0.100 (5.08 $\pm$ 2.54)	0.065 +0.010/-0.005 (1.65 +0.25/-0.13)	0.040 $\pm$ 0.002 (1.02 $\pm$ 0.051)

### 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.

**Features:**

- Welded construction
- Flameproof
- Inductance less than 10 nanohenries

**Operating Characteristics:**

- Load life @ 25°C (1000 hrs): 1% max.
- Moisture no load (1000 hrs): 1% max.
- Temperature cycle @ -40°C & +125°C (1000 cyc): 1% max.

**Applications:**

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

Ordering Data

Sample Part No. ....	OAR-TP	1	R100	J	LF
IRC Style .....					
Power Rating in Watts .....					
Resistance Range .....					
Tolerance .....					
RoHS Indicator .....					

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