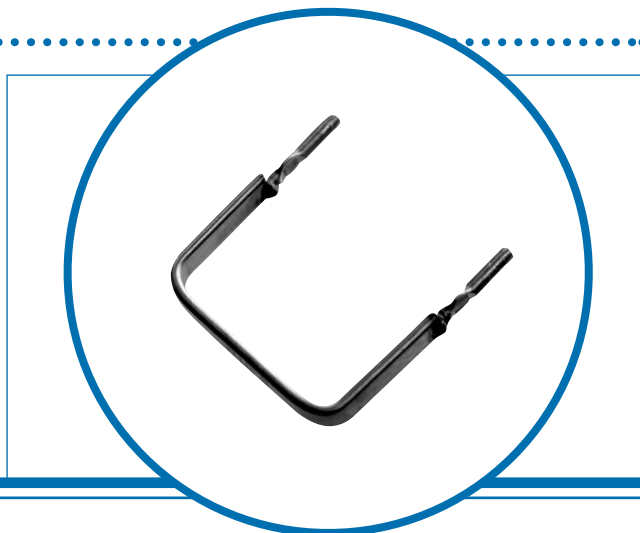


Open Air Sense Resistors

OAR Series

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



Electrical Data

		OAR-1	OAR-3	OAR-5
Power rating at 85 $^{\circ}\text{C}$	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

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

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Height Standards

All Resistances are in ohms. All Tolerances are ± 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

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

Packaging

Bulk packaging only.

Applications

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

Ordering Procedure

Specify type reference, value and tolerance as shown in this example of OAR-1 R10 1%:

Type **OAR-1** **R10** **F**

Resistance value
(IEC62 code)

Tolerance
(IEC62 code)

F	1%
G	2%
J	5%