

# Surface Mount Sense Resistors

OARS Series

- Flexible leads for thermal expansion
- Resistance wire TCR  $\pm 20 \text{ ppm}/^\circ\text{C}$
- Tolerance down to 1%
- Values down to  $3\text{m}\Omega$



## Electrical Data

		OARS-1			
Power rating	watts	1 @ $85^\circ\text{C}$		2 @ $25^\circ\text{C}$	
Resistance range	ohms	.003, .004, .005, .010, .015, .020, .025, .030, .040, .050			

\*Contact factory for values outside these specifications

## Physical Data

Dimensions (mm)		L	H	T	D	W
Type						
OARS-1		$11.18^{\pm 0.381}$	$3.05^{\pm 0.762}$	$2.36^{\pm 0.254}$	$4.83^{\pm 0.762}$	$3.175^{\max}$
			Recommended pad dimensions (mm)			

## Performance Data

Operating Characteristics		Maximum
Load life: 1000 hrs at $70^\circ\text{C}$	$\Delta R\%$	1
Moisture no load 1000 hrs	$\Delta R\%$	1
Temperature Cycle 1000 cyc at $-40^\circ\text{C}$ and $+125^\circ\text{C}$	$\Delta R\%$	1

## Features

- Superior thermal expansion cycling
- Inductance less than 10 nanohenries
- Flameproof
- Solderable pads (solder plated)
- Lead flexible for thermal expansion
- Low termination stress ('J' leads) applications

## Applications

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

## 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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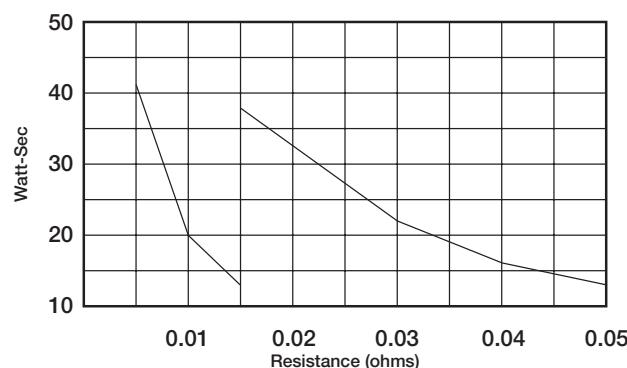


## Packaging Data

Dimensions (mm)							
Size	A	B	C	D	E	F	G
OARS	4.32±0.08	11.7±0.08	24.0±0.30	11.5±0.10	1.75±0.10	8.0±0.10	4.0±0.1

The diagram shows a top-down view of a surface-mount resistor package. It features a rectangular body with six circular pads along its top edge and four rectangular pads along its bottom edge, arranged in two rows of three. Dimension lines indicate: A is the width of one rectangular pad; B is the total width of the package; C is the height of the package; D is the thickness of the package; E is the distance from the bottom of the package to the center of the bottom row of pads; F is the distance between the centers of the two outer pads in the bottom row; and G is the distance between the centers of the two outer pads in the top row.

## OARS Pulse Handling



## Packaging

Resistors are supplied taped and reeled.

1,900 pcs per reel.

## Ordering Procedure

Specify type reference, value and tolerance as shown in this example of OARS-1 R05 1%:

Type ..... **OARS-1** **R05** **F**

Resistance value .....  
(IEC62 code)

Tolerance .....  
(IEC62 code)

F	1%
G	2%
J	5%