

Surface Mount Sense Resistors



OARS SERIES

- Flexible leads for thermal expansion
- Resistance wire TCR ± 20 ppm/ $^{\circ}\text{C}$
- Tolerance down to 1%
- 50V continuous pulse rating/rated voltage
- 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)					
Type	L	H	T	D	W
OARS-1	11.18 ± 0.381	3.05 ± 0.762	2.36 ± 0.254	4.83 ± 0.762	3.175 $_{\text{max}}$

Diagram showing the overall dimensions of the resistor: L (length), W (width), T (lead thickness), and D (lead length).

Recommended pad dimensions (mm)

Diagram showing the recommended dimensions for the solder pads: 3.07, 9.37, 3.23, 3.07, 3.2.

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 (60/40 solder plated)
- Lead flexible for thermal expansion
- Low termination stress ('J' leads)

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.

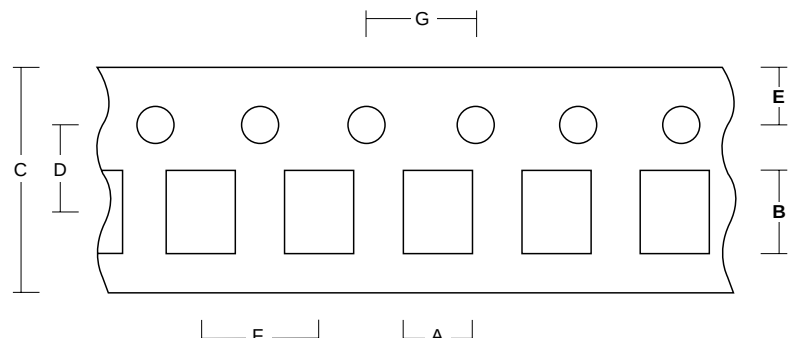
© Welwyn Components Limited

Bedlington, Northumberland NE22 7AA, England Tel: 01670 822181 Fax: 01670 829465 Web: <http://www.Welwyn-TT.co.uk>

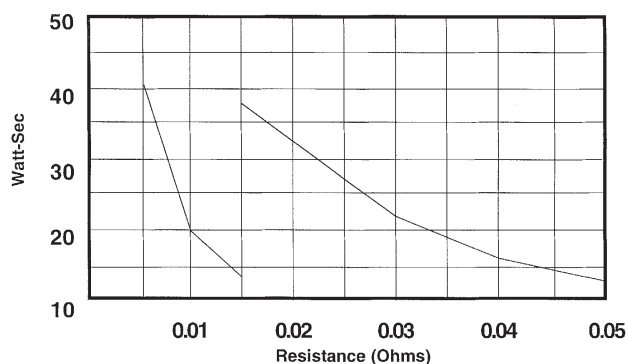
Issue A 07/99

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



OARS Pulse Handling



Packaging

Resistors are supplied taped and reeled.
1,000 pcs per reel.