

OARS SERIES

OPEN AIR SENSE RESISTORS



- Economical low value SMT
- Resistance values 2mΩ to 50mΩ
- Open air design provides cooler operation
- ±1% or ±5% tolerance (0.002Ω 5% only)
- Zero ohm jumper available
- Lead free ROHS compliant construction available



SPECIFICATIONS:

IRC Type	IRC Power Rating (watts)	Available Resistance Values
OARS-1	1W @ 85°C 2W @ 25°C	.002, .003, .004, .005, .010, .015, .020, .022, .025, .030, .040, .050

*Contact factory for unlisted resistance values between 0.002 & 0.050 ohms.

FEATURES:

- Superior thermal expansion cycling
- Inductance less than 10 nanohenries
- Flameproof
- Lead flexible for thermal expansion

APPLICATIONS:

- Current sensing
- Feedback
- Low inductance
- Surge and pulse
- AC applications (please contact the factory)

Recommended Landing Pad Size

IRC Type	L	H	T	D	W
OARS-1	0.440^{±0.015} (11.18^{±0.381})	0.120^{±0.030} (3.05^{±0.762})	0.093^{±0.010} (2.36^{±0.254})	0.190^{±0.030} (4.83^{±0.762})	0.125^{±0.015} (3.175^{±.381})
OARS-1 0.002Ω	0.455^{±.015} (11.56^{±.381})	0.150^{±.030} (3.51^{±.762})	0.093^{±.010} (2.36^{±.254})	0.185^{±.030} (4.70^{±.762})	0.140^{±.015} (3.56^{±.381})
OARS-1 0.003Ω	0.440^{±.015} (11.18^{±.381})	0.138^{±.030} (3.51^{±.762})	0.093^{±.010} (2.36^{±.254})	0.190^{±.030} (4.83^{±.762})	0.125^{±.015} (3.175^{±.381})

*For packaging information, see Appendix "A".

General Note

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

WIREWOUND AND FILM TECHNOLOGIES DIVISION

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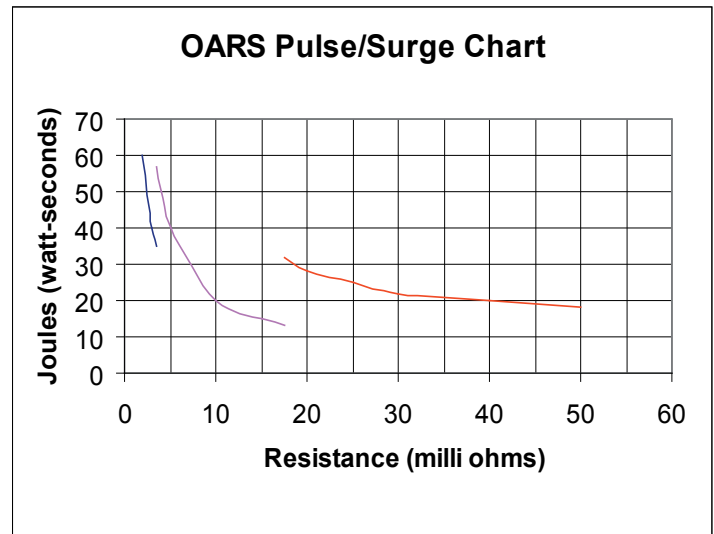
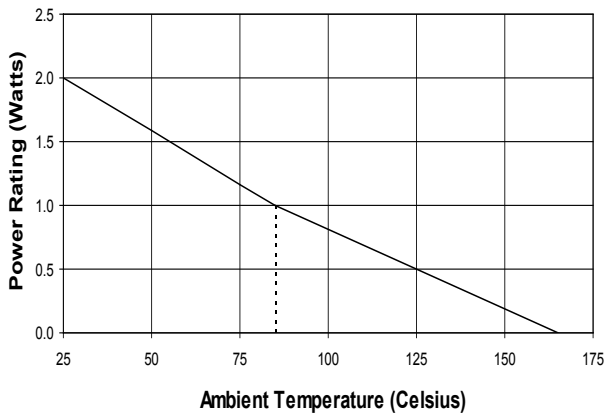


OARS Performance Characteristics:

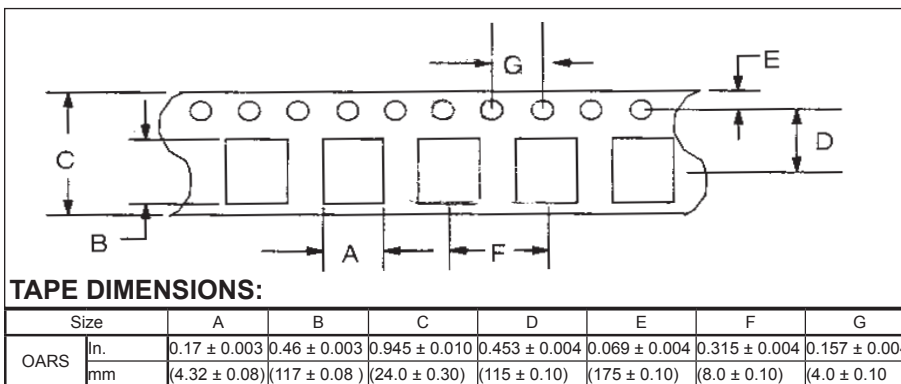
Test Spec: AEC Q200 2m -3m 4m -15m >15m

TCR +125 to -55°C	240ppm	40ppm	40ppm
Thermal Shock	<0.75%	<0.75%	<0.75%
High Temp. Exposure 125°C	<1.75%	<0.5%	<1.0%
Temp Cycling: -40 to +125°C	<1.0%	<1.0%	<0.75%
Operational Life	<2.0%	<1.0%	<1.0%
Baised Humidity	<0.75%	<0.5%	<0.5%
Mechanical Shock	<1.5%	<1.0%	<1.0%
V ibration	<1.0%	<1.0%	<1.0%

Moisture Resistance	<1.0	<2.5%	<2.0
Terminal Strength	Meets JIS-C-6429		
Solvent Resistance	Meets MIL-STD-202 Method 215		
Solderability	Meets J-STD-002 Method B		



OARS TAPE SPEC



HOW TO ORDER:

Sample Part No.:

OARS1 R005 J LF

IRC Type

Power (watts)

Resistance Range (ohms)

Tolerance

(F=1%, G=2%, J=5%)

Lead Free Construction

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