

IRC Current Sensing Resistors



OAR SERIES OPEN AIR SENSE RESISTORS

Features:

- Welded Construction
- Flameproof
- Inductance Less than 10nH
- Solderable Copper Leads (60/40)

Operating Characteristics:

- Load Life @ 25°C (1000 hrs): 1% Max.
- Moisture No Load (1000 hrs): 1% Max.
- Temp. Cycle @ -40°C & +125°C (1000 cyc): 1% Max.



RoHS Compliant

Specifications:

- Tolerance: ±5%
- Resistance Wire TCR ±20ppm/°C

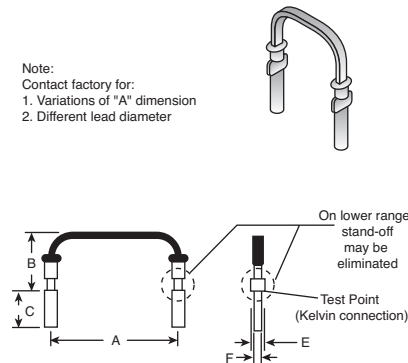
Feedback:

- Low Inductance
- Surge and Pulse

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	IRC Part No.	Resist. (Ω)	Power Rating (@ 85°)	Price Each				
				1	10	100	250	1000
66-OAR1R005JLF	OAR1R005JLF	0.005	1W	.56	.53	.49	.46	.39
66-OAR1R010JLF	OAR1R010JLF	0.010	1W	.60	.56	.53	.49	.41
66-OAR1R015JLF	OAR1R015JLF	0.015	1W	.60	.56	.53	.49	.41
66-OAR1R020JLF	OAR1R020JLF	0.020	1W	.60	.56	.53	.49	.41
66-OAR1R040JLF	OAR1R040JLF	0.040	1W	.60	.56	.53	.49	.41
66-OAR1R050JLF	OAR1R050JLF	0.050	1W	.60	.56	.53	.49	.41
66-OAR1R070JLF	OAR1R070JLF	0.070	1W	.60	.56	.53	.49	.41
66-OAR1R080JLF	OAR1R080JLF	0.080	1W	.60	.56	.53	.49	.41
66-OAR1R100JLF	OAR1R100JLF	0.100	1W	.61	.573	.543	.502	.42
66-OAR3R005JLF	OAR3R005JLF	0.005	3W	.78	.73	.68	.63	.53
66-OAR3R010JLF	OAR3R010JLF	0.010	3W	.68	.64	.60	.55	.47
66-OAR3R015JLF	OAR3R015JLF	0.015	3W	.74	.71	.65	.63	.52
66-OAR3R020JLF	OAR3R020JLF	0.020	3W	.68	.64	.60	.55	.47
66-OAR3R030JLF	OAR3R030JLF	0.030	3W	1.43	1.34	1.22	.91	.53
66-OAR3R040JLF	OAR3R040JLF	0.040	3W	1.35	1.27	1.15	.86	.50
66-OAR3R050JLF	OAR3R050JLF	0.050	3W	.75	.73	.72	.65	.50
66-OAR3R070JLF	OAR3R070JLF	0.070	3W	1.35	1.27	1.15	.86	.50
66-OAR3R080JLF	OAR3R080JLF	0.080	3W	1.35	1.27	1.15	.86	.50
66-OAR3R100JLF	OAR3R100JLF	0.100	3W	.75	.73	.72	.65	.50
66-OAR5R005JLF	OAR5R005JLF	0.005	5W	.95	.89	.83	.77	.65
66-OAR5R010JLF	OAR5R010JLF	0.010	5W	.95	.89	.83	.77	.65
66-OAR5R015JLF	OAR5R015JLF	0.015	5W	.95	.89	.83	.77	.65
66-OAR5R020JLF	OAR5R020JLF	0.020	5W	.95	.89	.83	.77	.65
66-OAR5R030JLF	OAR5R030JLF	0.030	5W	.95	.89	.83	.77	.65
66-OAR5R040JLF	OAR5R040JLF	0.040	5W	.95	.89	.83	.77	.65
66-OAR5R050JLF	OAR5R050JLF	0.050	5W	.95	.89	.83	.77	.65

Note:
Contact factory for:
1. Variations of "A" dimension
2. Different lead diameter



Dimensions: in. (mm)					
Type	A	B	C	E	F
OAR-1	0.450+0.040/-0.020 (11.43+1.020/-0.508)	0.200±0.100 (5.08±2.54)	0.125±0.030 (3.18±0.762)	0.065+0.010/-0.005 (1.65+0.254/-0.127)	0.040±0.002 (1.02±0.051)
OAR-3	0.600+0.040/-0.020 (15.24+1.020/-0.508)	0.600max. (15.3max.)	0.125±0.030 (3.18±0.762)	0.065+0.010/-0.005 (1.65+0.254/-0.127)	0.040±0.002 (1.02±0.051)
OAR-5	0.800+0.040/-0.020 (20.32+1.020/-0.508)	0.35max. (8.9max.)	25±0.030 (3.18±0.762)	0.065+0.010/-0.005 (1.65+0.254/-0.127)	0.040±0.002 (1.02±0.051)

OAR-XP SERIES - 1% OPEN AIR SENSE RESISTORS

Features:

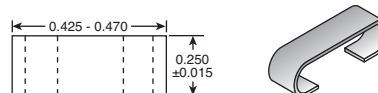
- Superior Thermal Expansion Cycling
- Extended power surface mount current sense resistor
- Open air design provides cooler operation
- Unique form factor provides TCE compliant termination
- Zero Ω Jumper available

Specifications:

- Power Rating: 5 Watts
- Resistance Values: 2mΩ to 50mΩ
- Inductance: <10nH
- Tolerance: ±1% or ±5% (0.002Ω - 5% only)



RoHS Compliant



DIMENSIONS: mm

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	IRC Part No.	Value (Ω)	Price Each				
			1	10	100	400	1200
66-OARSXPR001FLF	OARSXPR001FLF	0.0010	1.31	1.18	.93	.76	.67
66-OARSXPR002FLF	OARSXPR002FLF	0.0020	1.31	1.18	.93	.76	.67
66-OARSXPR0025FLF	OARSXPR0025FLF	0.0025	1.31	1.18	.93	.76	.67
66-OARSXPR005FLF	OARSXPR005FLF	0.0050	1.31	1.18	.93	.76	.67
66-OARSXPR010FLF	OARSXPR010FLF	0.0100	1.09	1.01	.80	.65	.58
66-OARSXPR020FLF	OARSXPR020FLF	0.0200	1.09	1.01	.80	.65	.58
66-OARSXPR025FLF	OARSXPR025FLF	0.0250	1.09	1.01	.80	.65	.58

OARS SERIES - OPEN AIR SENSE RESISTORS

Features:

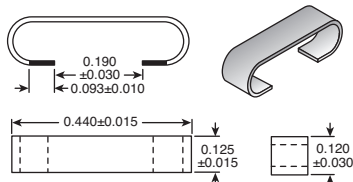
- Superior Thermal Expansion Cycling
- Inductance ≤ 10nH
- Lead Flexible for Thermal Expansion

Operating Characteristics:

- Load Life @ 70°C (1000 hrs): 1% D Max.
- Moisture No Load (1000 hrs): 1% D Max.
- Temperature Cycle @ -40°C & +125°C (1000 cyc): 1% Max.

Specifications:

- Tolerance: ±1%, ±5%
- Resistance Wire TCR ±20ppm/°C
- 50V Continuous Pulse Rating/Rated Voltage



RoHS Compliant

DIMENSIONS: mm

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	IRC Part No.	Resist. (Ω)	Tol.	Power Rating (Watts)	Price Each				
					1	25	100	500	1900
66-OARS1R003JLF	OARS1R003JLF	.003	5%	1W @ 85°C	.82	.64	.55	.47	.41
66-OARS1R005JLF	OARS1R005JLF	.005	5%	1W @ 85°C	.82	.64	.55	.47	.41
66-OARS1R010JLF	OARS1R010JLF	.010	5%	1W @ 85°C	.71	.55	.47	.40	.35
66-OARS1R015JLF	OARS1R015JLF	.015	5%	1W @ 85°C	.71	.55	.47	.40	.35
66-OARS1R020JLF	OARS1R020JLF	.020	5%	1W @ 85°C	.71	.55	.47	.40	.35
66-OARS1R030JLF	OARS1R030JLF	.030	5%	1W @ 85°C	.71	.55	.47	.40	.35
66-OARS1R040JLF	OARS1R040JLF	.040	5%	1W @ 85°C	.71	.55	.47	.40	.35
66-OARS1R050JLF	OARS1R050JLF	.050	5%	1W @ 85°C	.71	.55	.47	.40	.35
66-OARS3R002JLF	OARS3R002JLF	.002	5%	3W @ 85°C	.96	.88	.82	.72	.62
66-OARS3R003FLF	OARS3R003FLF	.003	1%	3W @ 85°C	1.00	.87	.74	.60	.53
66-OARS3R004FLF	OARS3R004FLF	.004	1%	3W @ 85°C	1.00	.87	.74	.60	.53
66-OARS3R005FLF	OARS3R005FLF	.005	1%	3W @ 85°C	1.00	.87	.74	.60	.53
66-OARS3R010FLF	OARS3R010FLF	.010	1%	3W @ 85°C	1.00	.87	.74	.60	.53
66-OARS3R015FLF	OARS3R015FLF	.015	1%	3W @ 85°C	1.00	.87	.74	.60	.53

LRZ SERIES - ULTRA LOW RESISTANCE SMD JUMPER RESISTORS

Specifications:

- High Current Rating
- Less than 0.003Ω Resistance
- Copper on Alumina construction
- Very Low Inductance
- Available in 1206, 2010, and 2512 chip sizes

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	IRC Part No.	Value (Ω)	Size	Price Each			
				1	10	100	250
66-LRZ1206-OLF	LRC-LRZ1206-LF-R000	0	1206	1.01	.97	.85	.74
66-LRZ2010-OLF	LRC-LRZ2010-LF-R000	0	2010	1.04	.95	.89	.72
66-LRZ2512-OLF	LRC-LRZ2512-LF-R000	0	2512	1.40	1.30	1.19	.78



RoHS Compliant

