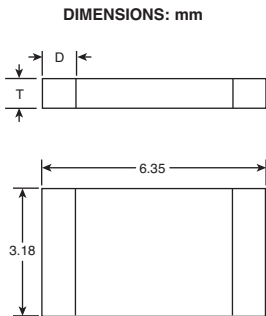


IRC 1% SMD Metal Element Current Sensing Resistors



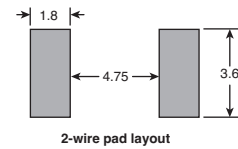
ULR SERIES

- Features:**
- Designed for current sense circuits in power electronics systems
 - Power Ratings: 1W to 3W in 2512 chip size
 - Resistance Range: 0.5mΩ to 10mΩ
 - Low TCR and inductance
 - Higher wattage devices feature PCB clearance gap to maximize thermal performance
 - Tolerance: ±1%



Coating	Resistance Value (mΩ)	DIMENSIONS: mm	
		T	D
Green	0.5	0.60±0.20	2.68±0.25
	0.75		2.48±0.25
	1 - 1.5		1.43±0.25
	2 - 3		1.18±0.25
	4		2.18±0.25
	5 - 6		1.93±0.25
	7		1.43±0.25
	8 - 20		1.18±0.25
Black	0.5	1.40±0.20	1.43±0.38
	0.75	1.0±0.20	
	1	0.80±0.20	
	1.5	0.65±0.20	
	2	0.50±0.20	
	2.5	1.0±0.20	
	3	0.70±0.20	
	4	0.60±0.20	
5 - 6	0.50±0.20		
6.5	0.45±0.20		
7	0.45±0.20		

Recommended Solder Pad Layout



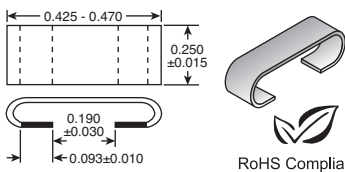
MOUSER STOCK NO.	IRC Part No.	Value (Ω)	Price Each					
			1	25	50	100	500	1000
1 Watt								
66-ULRB1R0005FLFSLT	ULRB12512R0005FLFSLT	0.0005	.49	.39	.35	.28	.25	.22
66-ULRB1R001FLFSLT	ULRB12512R001FLFSLT	0.001	.49	.39	.35	.28	.25	.22
66-ULRB1R0015FLFSLT	ULRB12512R0015FLFSLT	0.0015	.49	.39	.35	.28	.25	.22
66-ULRB1R002FLFSLT	ULRB12512R002FLFSLT	0.002	.49	.39	.35	.28	.25	.22
66-ULRB1R0025FLFSLT	ULRB12512R0025FLFSLT	0.0025	.49	.39	.35	.28	.25	.22
66-ULRB1R003FLFSLT	ULRB12512R003FLFSLT	0.003	.49	.39	.35	.28	.25	.22
66-ULRB1R004FLFSLT	ULRB12512R004FLFSLT	0.004	.49	.39	.35	.28	.25	.22
66-ULRB1R005FLFSLT	ULRB12512R005FLFSLT	0.005	.49	.39	.35	.28	.25	.22
66-ULRB1R007FLFSLT	ULRB12512R007FLFSLT	0.007	.49	.39	.35	.28	.25	.22
66-ULRB1R0075FLFSLT	ULRB12512R0075FLFSLT	0.0075	.49	.39	.35	.28	.25	.22
2 Watt								
66-ULRB2R0005FLFSLT	ULRB22512R0005FLFSLT	0.0005	.60	.48	.43	.34	.31	.27
66-ULRB2R00075FLFSLT	ULRB22512R00075FLFSLT	0.00075	.60	.48	.43	.34	.31	.27
66-ULRB2R001FLFSLT	ULRB22512R001FLFSLT	0.001	.60	.48	.43	.34	.31	.27
66-ULRB2R0015FLFSLT	ULRB22512R0015FLFSLT	0.0015	.60	.48	.43	.34	.31	.27
66-ULRB2R002FLFSLT	ULRB22512R002FLFSLT	0.002	.60	.48	.43	.34	.31	.27
66-ULRG2R007FLFSLT	ULRG22512R007FLFSLT	0.007	.60	.48	.43	.34	.31	.27
66-ULRG2R008FLFSLT	ULRG22512R008FLFSLT	0.008	.60	.48	.43	.34	.31	.27
66-ULRG2R009FLFSLT	ULRG22512R009FLFSLT	0.009	.60	.48	.43	.34	.31	.27
66-ULRG2R010FLFSLT	ULRG22512R010FLFSLT	0.01	.60	.48	.43	.34	.31	.27
2.5 Watt								
66-ULRG25R0035FLFSLT	ULRG252512R0035FLFSLT	0.0035	.60	.48	.43	.34	.31	.27
66-ULRG25R0075FLFSLT	ULRG252512R0075FLFSLT	0.0075	.60	.48	.43	.34	.31	.27
66-ULRG25R005FLFSLT	ULRG252512R005FLFSLT	0.005	.60	.48	.43	.34	.31	.27
66-ULRG25R006FLFSLT	ULRG252512R006FLFSLT	0.006	.60	.48	.43	.34	.31	.27
3 Watt								
66-ULRG3R0005FLFSLT	ULRG32512R0005FLFSLT	0.0005	.60	.48	.43	.34	.31	.27
66-ULRG3R00075FLFSLT	ULRG32512R00075FLFSLT	0.00075	.60	.48	.43	.34	.31	.27
66-ULRG3R001FLFSLT	ULRG32512R001FLFSLT	0.001	.60	.48	.43	.34	.31	.27
66-ULRG3R0015FLFSLT	ULRG32512R0015FLFSLT	0.0015	.60	.48	.43	.34	.31	.27
66-ULRG3R002FLFSLT	ULRG32512R002FLFSLT	0.002	.60	.48	.43	.34	.31	.27
66-ULRG3R0025FLFSLT	ULRG32512R0025FLFSLT	0.0025	.60	.48	.43	.34	.31	.27
66-ULRG3R003FLFSLT	ULRG32512R003FLFSLT	0.003	.60	.48	.43	.34	.31	.27

IRC 1% and 5% SMD Current Sensing Resistors



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 compliance termination
 - Zero Ω Jumper available
- Specifications:**
- Power Rating: 3-5 Watts
 - Resistance Values: 2mΩ to 50mΩ
 - Inductance: <10nH
 - Tolerance: ±1% or ±5% (0.002Ω - 5% only)

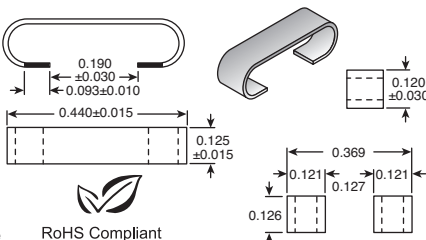


For quantities of 2000 and up, call for quote.

MOUSER STOCK NO.	IRC Part No.	Value (Ω)	Price Each				
			1	10	100	400	Reel 1200
66-OARSXPR001FLF	OARSXPR001FLF	0.0010	1.60	1.40	1.10	.95	.84
66-OARSXPR002FLF	OARSXPR002FLF	0.0020	1.60	1.40	1.10	.95	.84
66-OARSXPR0025FLF	OARSXPR0025FLF	0.0025	1.60	1.40	1.10	.95	.84
66-OARSXPR005FLF	OARSXPR005FLF	0.0050	1.60	1.40	1.10	.95	.84
66-OARSXPR010FLF	OARSXPR010FLF	0.0100	1.50	1.30	1.00	.85	.75
66-OARSXPR020FLF	OARSXPR020FLF	0.0200	1.50	1.30	1.00	.85	.75
66-OARSXPR025FLF	OARSXPR025FLF	0.0250	1.50	1.30	1.00	.85	.75

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



For quantities of 3800 and up, call for quote.

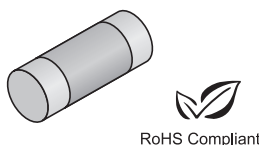
MOUSER STOCK NO.	IRC Part No.	Resist. (Ω)	Power Rating (Watts)	Price Each				
				1	25	100	500	Reel 1900
66-OARS1R003JLF	OARS1R003JLF	.003	1W @ 85°C	.96	.90	.84	.78	.72
66-OARS1R005JLF	OARS1R005JLF	.005	1W @ 85°C	.96	.90	.84	.78	.72
66-OARS1R010JLF	OARS1R010JLF	.010	1W @ 85°C	.84	.79	.74	.68	.63
66-OARS1R015JLF	OARS1R015JLF	.015	1W @ 85°C	.84	.79	.74	.68	.63
66-OARS1R020JLF	OARS1R020JLF	.020	1W @ 85°C	.84	.79	.74	.68	.63
66-OARS1R030JLF	OARS1R030JLF	.030	1W @ 85°C	.84	.79	.74	.68	.63
66-OARS1R040JLF	OARS1R040JLF	.040	1W @ 85°C	.84	.79	.74	.68	.63
66-OARS1R050JLF	OARS1R050JLF	.050	1W @ 85°C	.84	.79	.74	.68	.63

IRC 10% SMD Surge Resistors



HSF-1 SERIES

- Specifications:**
- Size Code: F
 - Industry Footprint: 2512
 - Maximum Power Rating: 1W @ 70°C
 - Working Wattage: 350
 - Tolerance: ±10%
 - TCR (ppm/°C): ±50, ±100
- Features:**
- Up to triple the surge rating of the rugged CHP1
 - Replaces costly surface-mount wirewound resistors
 - 150°C maximum operating temperature
 - 1 Watt power rating



For quantities of 2000 and up, call for quote.

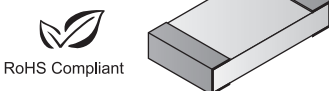
MOUSER STOCK NO.	IRC Part No.	Value (Ω)	Size	Price Each					
				1	10	100	250	500	Reel 1000
66-HSF11006R80K7LF	HSF11006R80K7LF	6.8	1206	.42	.39	.35	.32	.28	.25
66-HSF110027R0K7LF	HSF110027R0K7LF	27	2010	.42	.39	.35	.32	.28	.25
66-HSF110068R0K7LF	HSF110068R0K7LF	68	2512	.42	.39	.35	.32	.28	.25
66-HSF11002700K7LF	HSF11002700K7LF	270	2512	.42	.39	.35	.32	.28	.25

IRC SMD Jumper Resistors



LRZ SERIES - ULTRA LOW RESISTANCE

- 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 of 3000 and up, call for quote.

MOUSER STOCK NO.	IRC Part No.	Value (Ω)	Size	Price Each			
				1	10	100	250
66-LRZ1206-0LF	LRC-LRZ1206-LF-R000	0	1206	.84	.70	.60	.53
66-LRZ2010-0LF	LRC-LRZ2010-LF-R000	0	2010	.92	.77	.66	.58
66-LRZ2512-0LF	LRC-LRZ2512-LF-R000	0	2512	1.24	1.03	.89	.78