

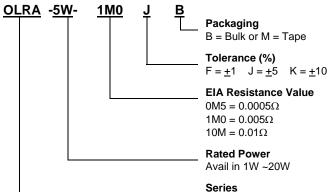
OPEN AIR SENSE RESISTORS

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OLR Series - Custom Made Metal Plate Current Sense Resistor Custom solutions are available.

HOW TO ORDER



Custom Open Air Sense Resistors

A = Body Style 1

B = Body Style 2

C = Body Style 3

D = Body Style 4

RATING

Terminations	2 and 4 are available		
Rated Power (70°C)	1W ~ 20W		
Resistance Range	$0.5m\Omega \sim 50m\Omega$		
Resistance Tolerance	±1%, ±5%, ±10%		
TCR	± 100ppm/°C		
Operating Temperature	-40°C ~ +180°C		

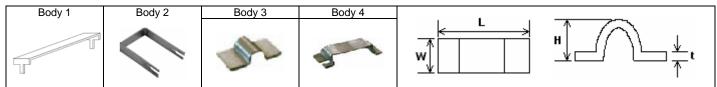
FEATURES

- Very Low Resistance $0.5m\Omega \sim 50m\Omega$
- High Rated Power from 1W to 20W
- Custom Solutions avail in 2 or 4 Terminals
- Open air design provides cooler operation
- Applicable for Reflow Soldering
- Superior thermal expansion cycling
- Low Inductance at less than 10nH
- Lead flexible for thermal expansion
- Products with lead-free terminations meet RoHS requirements

APPLICATIONS

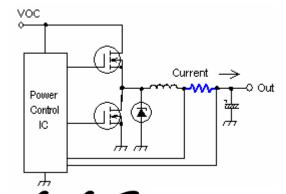
- Automotive
- Feedback
- CPU Drive use ■ AC Applications
- Power Tool
- Low Inductance Surge and Pulse
- Residual Battery Detection
- Inverter Power Supply
- Switching Power Source
- HDD, MOSFET Load

SHAPE & DIMENSIONS (custom to your requirements)



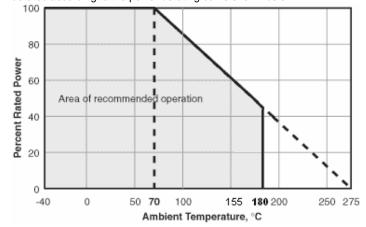
CIRCUIT LAYOUT example for Automotive

- DC-DC Converter over current detection
- **Engine Starter**
- Power Windows
- Air Conditioning Fan
- **Automatic Mirrors**
- Battery
- Motor Control Circuit



DERATING CURVE

If the ambient temperature exceeds 70°C, the rated power has to be derated according to the power derating curve shown below.





188 Technology Drive, Unit H Irvine, CA 92618 TEL: 949-453-9888 • FAX: 949-453-8889



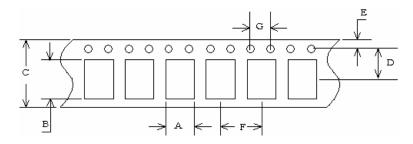
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PERFORMANCE CHARACTERISTICS

Item	Parameter		
TCR (+125°C ~ -55°C)	± 10ppm		
Thermal Shock	± 1%		
High Temperature Exposure	± 3%		
Temperature Cycling (-40°C ~ +125°C)	± 1%		
Operating Life	± 3%		
Solderability	95% minimum coverage		
Moisture Resistance	± 3%		
Base Humidity	± 3%		
Vibration	± 1%		
Terminal Strength	± 1%		
Solvent Resistance	± 1%		



TAPE PACKAGING (mm)

Ta	ape	Α	В	С	D	E	F	G
'6	ape	6.4±0.1	7.4±0.1	16.0±0.3	7.5±0.1	1.75±0.1	8.0±0.1	4.0±0.1



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