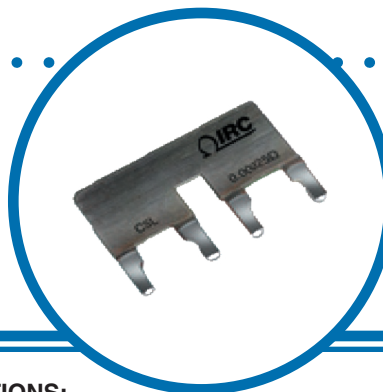


Four Terminal Open Air Low Ohm Current Sense Resistor

CSL Series - Patent Pending

- <55 ppm/°C TCR
- 5 watt max power
- 55 amp max current
- Down to 1% tolerance
- 4-Terminal Kelvin connections



FEATURES:

- Inductance less than 10 nanohenries
- Flameproof
- Solderable leads (60/40 plate)
- 55 amp continuous operating current
- Inline construction for easy board insertion
- Economical board space design
- Welded construction

APPLICATIONS:

- Current Sensing
- Feed Back
- Motor Control
- Surge/Pulse Applications

Electrical Data

IRC Type	Power/Current Rating (Watts)	Standard Resistance Range (Ohms)	Tolerance (±%)
CSL	5 watt max power 55 amps max current	0.00025 ohm - 0.0025 ohm	1%

Environmental Data

CSL Performance Characteristics: Test Spec: AEC Q200	
TCR +125 to -55°C	<55 ppm/°C
Thermal Shock	<1.5%
High Temp Exposure 1000 hours @ 125°C	<1.75%
Temp. Cycling: -55 to -125°C 1000 cycles	<1.0%
Operational Life: 1000 hours @ 70°C	<1.0%
Moisture Resistance	<1.0%
Baised Humidity	<1.0%
Mechanical Shock	<1.0%
Vibration	<0.75%
Solder Heating	<1.0%
Solderability	Meets J-STD-002 Method 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.

Four Terminal Open Air Low Ohm Current Sense Resistor



Physical Data

ALL DIMENSIONS 0.010 (0.254) UNLESS OTHERWISE STATED.
 DIMENSIONS C, D, & E = ± 0.005 (0.127).
 DIMENSIONS A AND F REFERENCE ONLY.

RECOMMENDED PC BOARD FOOTPRINT AND ELECTRICAL CONNECTION

Note:

1.1M Ω - 2.5M Ω = 0.014 [0.356]
 0.4M Ω - 1.0M Ω = 0.036 [0.914]
 0.4M Ω - 1.0M Ω = 0.071 [1.80]

RECOMMENDED ELECTRICAL CONNECTION
 TERMINALS 2 & 3 CURRENT TRACES
 TERMINALS 1 & 4 SENSE TRACES

Dimensions (Inches (mm))							
A	B	C	D	E	F	G	H
0.862 (21.9)	0.426 (10.8)	0.800 (20.3)	0.200 (5.1)	0.300 (7.6)	0.555 (14.01)	0.176 (4.5)	0.062 (1.57)

Ordering Data

Sample Part No. **CSL** **R001** **F** **U**

IRC Type
 Resistance Value (EIA 4-digit code)
 Tolerance
 F = $\pm 1\%$

Marking
 U = unmarked
 M = marked