

Four Terminal Open Air Low Ohm Current Sense Resistor

CSL Series

Features

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



 All Pb-free parts comply with EU Directive 2011/65/EU amended by (EU) 2015/863 (RoHS3)

FEATURES:

- Inductance less than 10 nanohenries
- Flameproof
- Solderable leads
- 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 Values (mΩ)	Tolerance (±%)
CSL	5 watt max power 55 amps max current	0.25, 0.5, 1, 1.5, 2, 2.5	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

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

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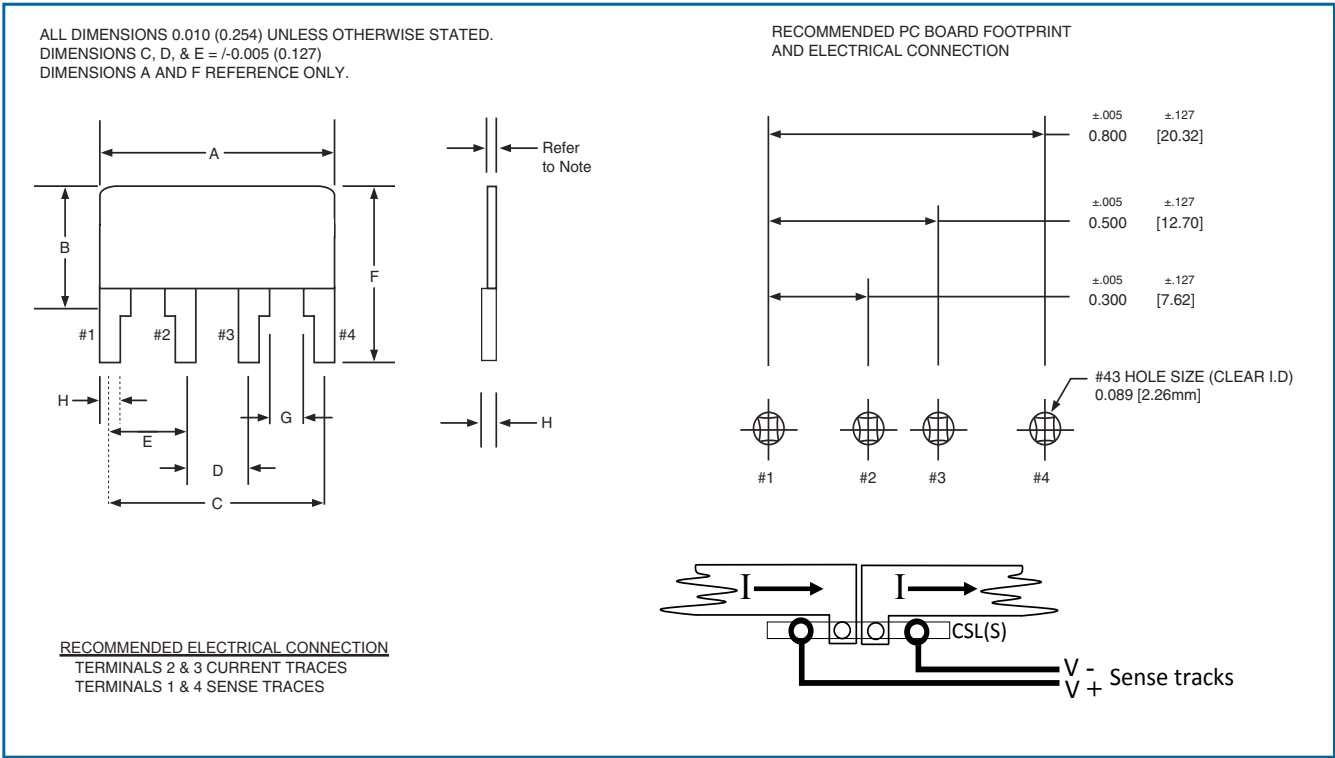
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Physical Data



Note:

- 1.1 mΩ - 2.5 mΩ = 0.014 [0.356]
- 0.4 mΩ - 1.0 mΩ = 0.036 [0.914]
- 0.25 mΩ - 0.4 mΩ = 0.071 [1.80]

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

Example: CSL5-R001FLF (CSL5, 1 milliohm $\pm 1\%$, marked, Pb-free)

C	S	L	5	R	0	0	1	F		L	F
1			2			3	4	5			

1 Type	2 Value	3 Tolerance	4 Marking			5 Termination
CSL5	4-6 characters	F = $\pm 1\%$	Omit	Marked	Standard	LF = Pb-free
	See Electrical Data		U	Unmarked	Non-standard	
	R = ohms					

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