Four Terminal Open Air Low Ohm Current Sense Resistor



NOT RECOMMENDED FOR NEW DESIGNS

CSL Series

Features

- <55 ppm/°C TCR</p>
- 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

Electrical Data

APPLICATIONS:

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

IRC Type Power/Current Rati		Standard Resistance Values	Tolerance		
(Watts)		(mΩ)	(±%)		
CSL	5 watt max power 55 amps max current	0.25, 0.5, 1, 1.5, 2, 2.5			

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			

BI Technologies IRC Welwyn

All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

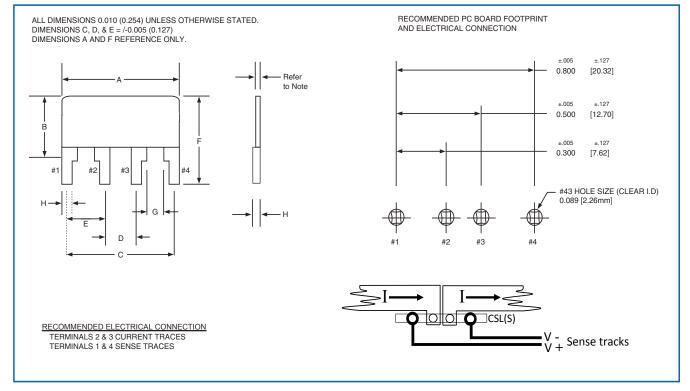
TT Electronics reserves the right to make changes in product specification without notice or liability.

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Physical Data



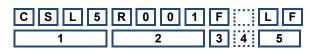
Note:

 $\begin{array}{l} 1.1 \mbox{ m}\Omega \mbox{ - } 2.5 \mbox{ m}\Omega \mbox{ = } 0.014 \mbox{ [} 0.356\mbox{]} \\ 0.4 \mbox{ m}\Omega \mbox{ - } 1.0 \mbox{ m}\Omega \mbox{ = } 0.036 \mbox{ [} 0.914\mbox{]} \\ 0.25 \mbox{ m}\Omega \mbox{ - } 0.4 \mbox{ m}\Omega \mbox{ = } 0.071 \mbox{ [} 1.80\mbox{]} \end{array}$

	Dimensions (Inches (mm))						
A	в	с	D	E	F	G	н
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 ±1%, marked, Pb-free)



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

General Note

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www.ttelectronics.com/resistors

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TT Electronics:

 CSL-5R0005F0002
 CSL-5.001
 1%
 CSL-5R00025F0002
 CSL5R0015F
 CSL-5R001F0002LF
 CSL-5R0005F0002LF

 CSL-5R0025F0002LF
 CSL-5R00025F0002LF
 CSL5R001FM-LF
 CSL-5R00025F
 CSL-5R00025FLF
 CSL-5R00025FLF

 CSL-5R0005FLF
 CSL-5R001FM-LF
 CSL-5R00025F
 CSL-5R00025FLF
 CSL-5R0005FLF

 CSL-5R0005FLF
 CSL-5R001FLF
 CSL-5R0025FLF
 CSL-5R0005FLF
 CSL-5R0005FLF