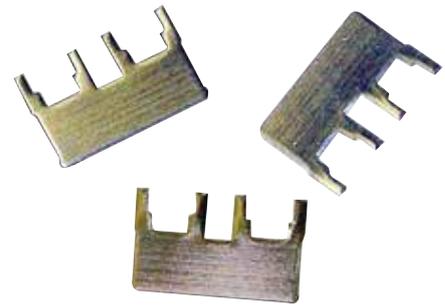


# Four Terminal Open Air Low Ohm Current Sense

## CSLS Series

# OBSOLETE



### Features

- 25 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

### APPLICATIONS:

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

## Electrical Data

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

## Environmental Data

CSLS Performance Characteristics: Test Spec: AEC Q200	
TCR +125 to -55°C	25 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.  
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## Physical Data

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

RECOMMENDED PC BOARD FOOTPRINT AND ELECTRICAL CONNECTION

Refer to Note

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

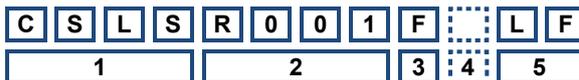
Note:

- 1.1 m $\Omega$  - 2.5 m $\Omega$  = 0.014 [0.356]
- 0.4 m $\Omega$  - 1.0 m $\Omega$  = 0.036 [0.914]
- 0.25 m $\Omega$  - 0.4 m $\Omega$  = 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: CSLS-R001FLF (CSLS, 1 milliohm  $\pm 1\%$ , marked, Pb-free)



1	2	3	4			5
Type	Value	Tolerance	Marking			Termination
CSLS	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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