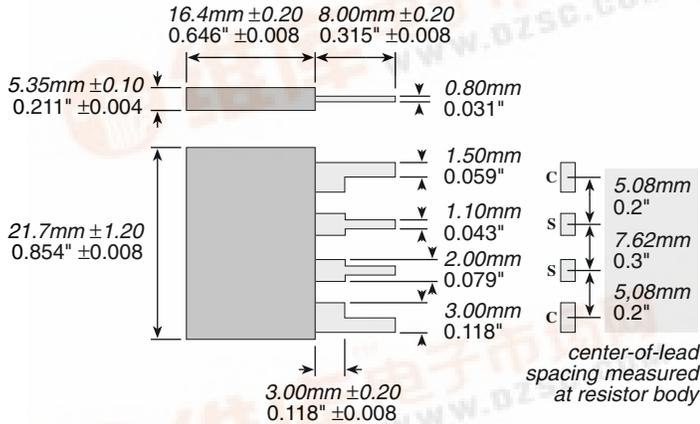


# CS3 Series

## Wire Element Four Terminal Precision Current Sense



The CS3 Series utilizes state of the art technology to achieve highly reliable non-inductive performance. The CS3 is ideal for current monitoring and control applications.

## SPECIFICATIONS

### Material

**Terminal Material:** Kelvin Terminals; 97% Sn / 3% Ag solder over copper

**Encapsulation:** Polyester over resistance element

## FEATURES

- Values beginning at 1 milliohm
- Non Inductive Design
- Four terminal Kelvin connection

### Electrical

**Standard Resistance Values:** 1 mΩ - 50 mΩ

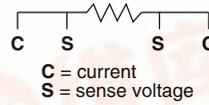
**Resistance Tolerances:** 1%, 2%, 5%

**Temperature Coefficient:** TC referenced to 25°C, ΔR taken at -15°C and +105°C, 60ppm/°C

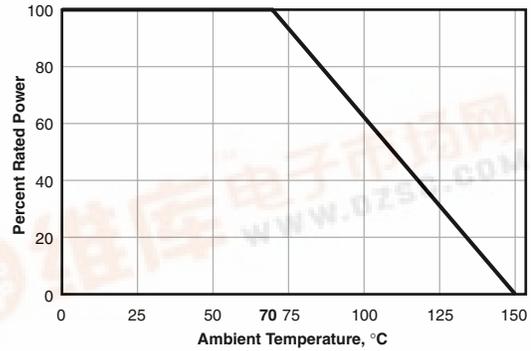
**Power Rating:** 3W at 70°C max. 40Amp permanent

**Operating Temp.:** -55°C to 150°C  
**Storage Temp.:** -40°C to 85°C

## INTERNAL CIRCUIT



## DERATING



## TEST DATA

<b>Load Life</b>	(1,000 hours at rated power at 70°C)	ΔR 0.2% max.
<b>Moisture Resistance</b>	(Mil-Std-202, Method 106, Cond. A)	ΔR 0.2% max.
<b>Thermal Shock</b>	(Mil-Std-202, Method 107)	ΔR 0.2% max.

## STANDARD PART NUMBERS FOR CS3 SERIES

Series Tolerance	CS3F 1%	Series Tolerance	CS3F 1%
0.001	CS3FR001E	0.015	CS3FR015E
0.002	CS3FR002E	0.02	CS3FR020E
0.003	CS3FR003E	0.025	CS3FR025E
0.005	CS3FR005E	0.03	CS3FR030E
0.01	CS3FR010E	0.036	CS3FR036E
		0.05	CS3FR050E

Check product availability at [www.ohmite.com](http://www.ohmite.com)

## ORDERING INFORMATION

CS3JR050E			
Style	Tolerance	Ohms	RoHS Compliant
	F = 1%	R = Decimal	Non-compliant
	G = 2%	Example:	version not
	J = 5%	R010 = 0.010	recommended for
		R005 = 0.005	new designs

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