

SMD Power Resistor (Current Sensing)

Type CSR Series

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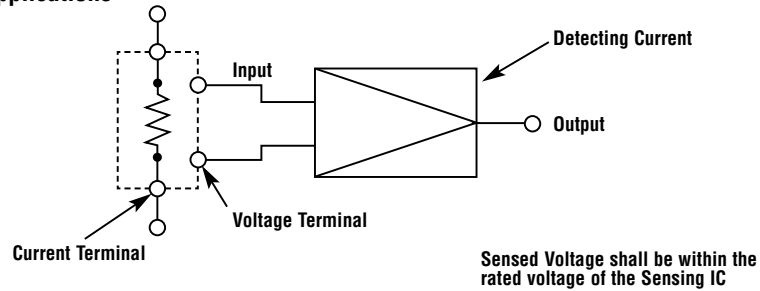


The CSR Series is a unique development available from Tyco in that it offers Kelvin connections in a 1 & 2 watt low ohmic resistor designed for current sensing. The CSR utilises fully welded construction techniques unlike other designs which rely solely on tinned termination connections. These features allow the CSR Series to withstand the higher temperatures associated with reflow, vapour phase, or infrared (IR) manufacturing processes without degradation.

Characteristics - Electrical

	CSR-1	CSR-2
Power Rating at 70°C:	1W	2W
Resistance Range (milli Ohms):	5-50	5-50
Resistance Tolerance:	D (±0.5%) F (±1%)	F (±1%)
T.C.R. ppm/°C:	±50	±50
Operating Temperature Range:	-55°C to +125°C	-55°C to +125°C

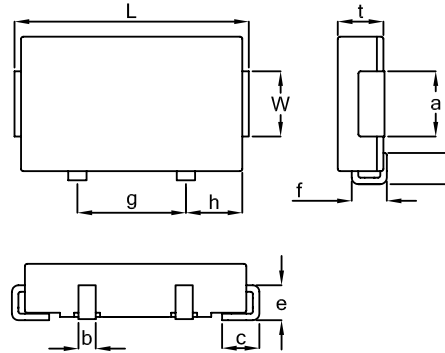
Example of CSR Application - Only for Direct Current, Low Voltage Applications



Key Features

- 1 & 2 Watt Styles
- Tolerances down to ±0.5%
- Kelvin Connections
- TCR 50 PPM/°C
- Stable On Board Performance
- Ideal for Current Sensing

Dimensions



Style	L	W	t	a	b	c	d	e	f	g	h
CSR-1	10.8±0.5	6.2±0.3	2.1±0.2	3.0±0.3	0.8±0.2	1.4±0.5	1.2±0.5	1.3±0.3	1.3±0.3	5.0±0.1	2.5±0.1
CSR-2	12.8±0.5	8.2±0.3	3.1±0.2	5.0±0.3	1.0±0.2	2.0±0.5	2.0±0.5	2.2±0.3	2.2±0.3	6.0±0.1	3.0±0.1

How to Order

CSR	1	R10	F	T
Common Part	Power Rating	Resistance Value	Resistor Tolerance	Pack Style
CSR - 4 Terminal Current Sense Resistor	1 - 1 Watt 2 - 2 Watt	0.001 Ohm (1 milli Ohm) R001 0.1 Ohm (100 milli Ohm) R10	D - ±0.5% F - ±1%	- Loose T - Tape And Reel