

# CSR Series

Ultra Low Ohm (Metal Strip) Chip Resistor



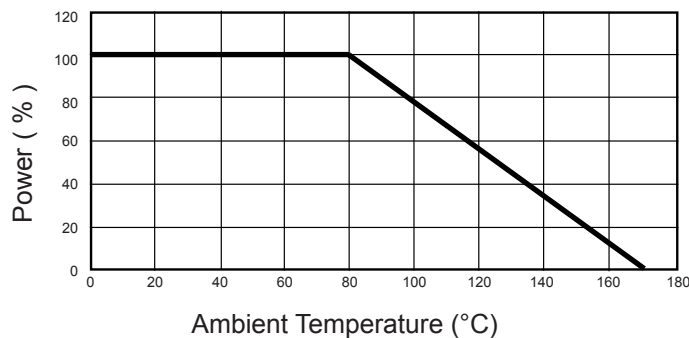
- Resistances from 0.5 mOhm to 15 mOhm
- Power Rating up to 3 Watts
- Resistance Tolerances to  $\pm 1\%$
- Customized Resistance Available
- TCR's to  $\pm 50$  ppm/K
- Sizes: 1206 / 2010 / 2512

## SPECIFICATIONS

Type	Power Rating (W) at 80°C	Resistances (mΩ)	TCR (ppm/°C)	Tolerances	Operating Temperature Range	MAX Operating Voltage
CSR1206	1	1 - 10	$\pm 50$	1% 3% 5%	-55°C to +170°C	$\sqrt{(P \cdot R)}$
CSR2010	1.5	1 - 10	$\pm 50$			
CSR2512	1	0.5, 0.75, 1, 1.5, 2 11, 12, 13, 14, 15	$\pm 50$			
		2.5, 3, 10	$\pm 150$			
		4, 5	$\pm 100$			
		6, 6.5, 7	$\pm 75$			
CSR2512A <sup>1</sup>	2	0.5, 0.75, 1, 1.5, 2 6.5, 7, 8, 9, 10	$\pm 50$			
CSR2512B <sup>1</sup>	2.5	4, 4.5, 5, 6	$\pm 50$			
CSR2512C <sup>1</sup>	3	0.5, 0.75	$\pm 100$			
		1, 1.5, 2, 3	$\pm 50$			

<sup>1</sup>Indicates green coating

Power Derating Curve

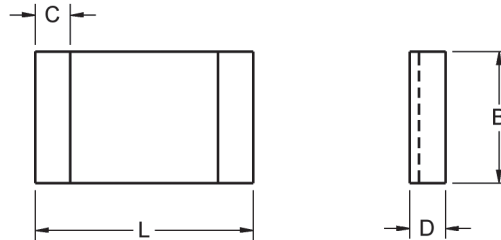


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## Specifications



Part	L inches [mm]	B inches [mm]	D inches [mm]	C inches [mm]
CSR1206	0.13 [3.2]	0.06 [1.6]	0.02 [0.6]	0.02 - 0.04 [0.6 - 1.1]
CSR2010	0.2 [5.08]	0.1 [2.54]	0.02 [0.6]	0.04 - 0.07 [1.04 - 1.84]
CSR2512	0.25 [6.35]	0.13 [3.18]	0.01 - 0.05 [0.25 - 1.25]	0.05 [1.30]
CSR2512A,B,C	0.25 [6.35]	0.12 [3.00]	0.02 [0.6]	0.05 - 0.11 [1.18 - 2.68]

Table has been simplified. Please inquire for exact dimensions

Test	Specification		Test Method
	Black Coating	Green Coating	
Temperature Coefficient of Resistance	As Spec.		+25/-55/+25/+125/+25°C
Short Time Overload	±0.5%	±1.0%	5x rated power for 5 seconds
Load Life	±1.0%	±1.0%	70±2°C, Max. working voltage for 1000 hrs with 1.5 hrs "ON" and 0.5 hrs "OFF"
Dry Heat	±1.0%	±1.0%	at +170°C for 1000 hrs
Solderability	95% min. coverage		245±5°C for 3 seconds
Resistance to Soldering Heat	±0.5%	±1.0%	260±5°C for 10 seconds
Thermal Shock	±0.5%	±(0.5%+0.05Ω)	-55°C ~ 150°C, 100 cycles

\*Green Coating can't be used in solder bath

Reel Sizes	Type	Quantity
CSR1206	Embossed Tape	2000
CSR2010		
CSR2512		

## Ordering Information

Part Number - Resistance - Tolerance - TCR

Example: CSR2512 1mOhm 1% 50ppm