



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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 ± 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	0.5 - 10	± 50 ± 200 (0.5Ω)	1% 3% 5%	-55°C to +170°C	$\sqrt{(P \cdot R)}$
CSR2010	1.5	0.5 - 10	± 50 ± 100 (0.5Ω)			
CSR2512 ¹	1	0.5, 0.75, 1, 1.5, 2 11, 12, 13, 14, 15	± 50			
		6, 6.5, 7	± 75			
		4, 5, 10	± 100			
		2.5, 3	± 150			
CSR2512A ²	2	0.5, 0.75, 1, 1.5, 2 6.5, 7, 8, 9, 10	± 50			
		6, 6.5, 7	± 75			
		4, 5, 10	± 100			
		2.5, 3	± 150			
CSR2512B ³	2.5	4, 4.5, 5, 6	± 50			
CSR2512C ³	3	0.5, 0.75	± 100			
		1, 1.5, 2, 3	± 50			

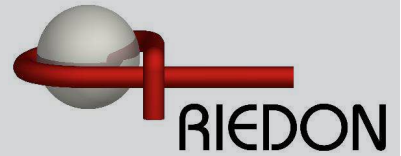
¹ 11, 12, 13, 14, 15 Ω have green coating

² 6.5, 7, 8, 9, 10 Ω at 50ppm have green coating

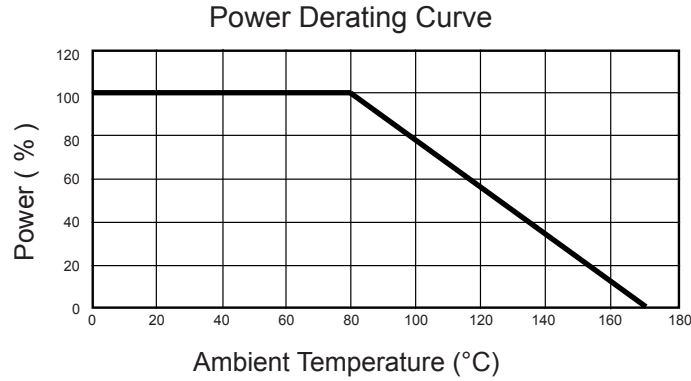
³ All values have green coating

CSR Series

Ultra Low Ohm (Metal Strip) Chip Resistor



Specifications



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

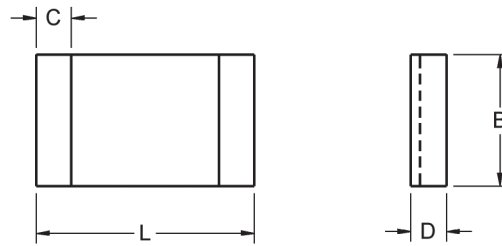
Reel Sizes	Type	Quantity
CSR1206	Embossed Tape	2000
CSR2010		
CSR2512		

Ordering Information

Part Number - Resistance - Tolerance - TCR

Example: CSR2512 1mOhm 1% 50ppm

Specifications



Part	Power Rating	Resistance Value	L (mm)	B (mm)	D (mm)	C (mm)
CSR1206	1	0.5	3.20±0.25	1.60±0.10	0.60±0.20	1.35±0.25
CSR1206	1	0.75	3.20±0.25	1.60±0.10	0.60±0.20	1.23±0.25
CSR1206	1	1, 4, 5, 6	3.20±0.25	1.60±0.10	0.60±0.20	1.10±0.25
CSR1206	1	2, 3, 10	3.20±0.25	1.60±0.10	0.60±0.20	0.60±0.25
CSR1206	1	7, 8, 9	3.20±0.25	1.60±0.10	0.60±0.20	0.90±0.25
CSR2010	1.5	0.5	5.08±0.25	2.54±0.15	0.60±0.20	2.17±0.25
CSR2010	1.5	0.75	5.08±0.25	2.54±0.15	0.60±0.20	2.04±0.25
CSR2010	1.5	1	5.08±0.25	2.54±0.15	0.60±0.20	1.84±0.25
CSR2010	1.5	2, 6, 7, 8	5.08±0.25	2.54±0.15	0.60±0.20	1.54±0.25
CSR2010	1.5	3	5.08±0.25	2.54±0.15	0.60±0.20	1.04±0.25
CSR2010	1.5	4, 5	5.08±0.25	2.54±0.15	0.60±0.20	1.84±0.25
CSR2010	1.5	9, 10	5.08±0.25	2.54±0.15	0.60±0.20	1.29±0.25
CSR2512	1	0.5	6.35±0.254	3.18±0.254	1.25±0.20	1.30±0.38
CSR2512	1	0.75	6.35±0.254	3.18±0.254	0.75±0.20	1.30±0.38
CSR2512	1	1	6.35±0.254	3.18±0.254	0.65±0.20	1.30±0.38
CSR2512	1	1.5	6.35±0.254	3.18±0.254	0.45±0.20	1.30±0.38
CSR2512	1	2	6.35±0.254	3.18±0.254	0.35±0.20	1.30±0.38
CSR2512	1	2.5	6.35±0.254	3.18±0.254	0.65±0.20	1.30±0.38
CSR2512	1	3	6.35±0.254	3.18±0.254	0.55±0.20	1.30±0.38
CSR2512	1	4	6.35±0.254	3.18±0.254	0.45±0.20	1.30±0.38
CSR2512	1	5	6.35±0.254	3.18±0.254	0.35±0.20	1.30±0.38
CSR2512	1	6	6.35±0.254	3.18±0.254	0.32±0.20	1.30±0.38
CSR2512	1	6.5	6.35±0.254	3.18±0.254	0.30±0.20	1.30±0.38
CSR2512	1	7	6.35±0.254	3.18±0.254	0.27±0.20	1.30±0.38
CSR2512	1	10	6.35±0.254	3.18±0.254	0.25±0.20	1.30±0.38
CSR2512 w/ Green Coating	1 to 3	0.5	6.35±0.25	3.00±0.20	0.60±0.20	2.68±0.25
CSR2512 w/ Green Coating	1 to 3	0.75	6.35±0.25	3.00±0.20	0.60±0.20	2.48±0.25
CSR2512 w/ Green Coating	1 to 3	1, 5, 6	6.35±0.25	3.00±0.20	0.60±0.20	1.93±0.25
CSR2512 w/ Green Coating	1 to 3	1.5, 6.5, 7	6.35±0.25	3.00±0.20	0.60±0.20	1.43±0.25
CSR2512 w/ Green Coating	1 to 3	2, 3	6.35±0.25	3.00±0.20	0.60±0.20	1.18±0.25
CSR2512 w/ Green Coating	1 to 3	4, 4.5	6.35±0.25	3.00±0.20	0.60±0.20	2.18±0.25
CSR2512 w/ Green Coating	1 to 3	8 to 15	6.35±0.25	3.00±0.20	0.60±0.20	1.18±0.25