

Current Sensing Chip Resistors

Type: CS

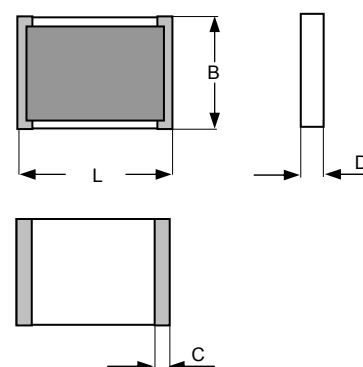
Sizes: 0402, 0603, 0805, 1206, 2010, 2512, 0815, 0830, 1225

Features:

- Chip Resistors in Thickfilm
- Pb-free terminations
- Close tolerances - low TCR
- Low values – high power up to 3W

Dimensions:

Size	L	B	D	C
0402	1.0 ± 0.05	0.5 ± 0.05	0.32 ± 0.1	0.2 ± 0.1
0603	1.60 ± 0.1	0.8 ± 0.1	0.45 ± 0.1	0.3 ± 0.2
0805	2.0 ± 0.15	1.25 ± 0.15	0.55 ± 0.1	0.4 ± 0.25
1206	3.05 ± 0.15	1.55 ± 0.15	0.55 ± 0.1	0.4 ± 0.25
2010	5.0 ± 0.2	2.45 ± 0.15	0.60 ± 0.15	0.5 ± 0.25
2512	6.35 ± 0.2	3.15 ± 0.15	0.60 ± 0.1	0.55 ± 0.25
0815	2.0 ± 0.2	3.75 ± 0.15	0.60 ± 0.1	0.4 ± 0.2
0830	2.0 ± 0.2	7.5 ± 0.3	0.60 ± 0.1	0.4 ± 0.2
1225	3.1 ± 0.15	6.3 ± 0.15	1.0 ± 0.1	0.55 ± 0.25



L = length, B = Width, D = Thickness, C = Width wrap around (in mm)

Technical data – depending on size:

Size	0402	0603	0805	1206	2010	2512	0815	0830	1225
Power rating P_{70}	62.5 mW	0.1W	0.125W (0.25W)	125mW (0.5W)	0.5W	1W	1W	2W	3W
Resistance range	50mR...1R	20mR...1R	20mR...1R	10mR...1R	10mR...1R	10mR...1R	10mR...0R5	1mR...0R5	5mR...0R2
TCR (ppm/K)	400...200	600...200	600...200	600...200 (100)	600...200 (100)	600...200 (100)	300	300	600...200

Technical data - general:

Tolerances	1% / 2% / 5%
Temperature range	-55°C ... +155°C
Load Life (70°C, power 1.5h on, 0.5h off, 1000h)	$\Delta R < 0.5\%$
Short time overload (2.5x rated power, 5s)	$\Delta R < 0.5\%$
Humidity (40°C, 95%RH, power 1.5h on, 0.5h off, 1000h)	$\Delta R < 0.5\%$
Dry Heat (96h / 155°C)	$\Delta R < 0.5\%$

More data on request

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