

Trimmable Chip Resistors

Types: CRA/CRB

Sizes: 0612, 0805, 1206, 1210, 1216, 1216 H

Features:

- Trimmable Chip Resistors in Thickfilm
- Contact areas Nickel-barrier/tinned/glasspassivated (CRA) or PtAg/unpassivated (CRB)
- Laser and Air-abrasive usable for trimming
- High trimming ratios by special geometries

Dimensions:

Size	L	B	D	C
0612	$1.5^{+0.2}_{-0.05}$	$3.2^{+0.2}_{-0.05}$	$0.4^{+0.2}_{-0}$	$0.3^{\pm 0.2}$
0805	$2.0^{+0.2}_{-0.05}$	$1.2^{+0.2}_{-0.05}$	$0.4^{+0.2}_{-0}$	$0.3^{\pm 0.2}$
1206	$3.2^{+0.2}_{-0.05}$	$1.5^{+0.2}_{-0.05}$	$0.4^{+0.2}_{-0}$	$0.3^{\pm 0.2}$
1210	$3.2^{+0.2}_{-0.05}$	$2.5^{+0.2}_{-0.05}$	$0.5^{+0.2}_{-0}$	$0.8^{\pm 0.2}$
1216	$3.2^{+0.2}_{-0.05}$	$4.1^{+0.2}_{-0.05}$	$0.5^{+0.2}_{-0}$	$0.4^{\pm 0.2}$
1216 H	$3.2^{+0.2}_{-0.05}$	$4.1^{+0.2}_{-0.05}$	$0.5^{+0.2}_{-0}$	$0.4^{\pm 0.2}$

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

Packaging:

Bulk or Tape acc. to IEC 286-3/EIA 481-1-A (tape width 8/12 mm, reel diameter 180 mm/330 mm)

Minimum quantity bulk: 100 pieces per value

Minimum quantity tape: 2000 pieces per value

Ordering data:

Type/Size – Value – Tolerance – TCR – Packaging (if not bulk)

Example: CRA 1216 100R \pm 20 % – TK 50 – Tape – Reel diameter

SRT Resistor Technology

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Technical data – depending on size:

Size	0612	0805	1206	1210	1216	1216 H
Power rating P_{70} (mW) ($P_{155} = 0$ mW)	300	125	250	350	400	400
Working voltage U_{-} , U_{eff} (V) trimmed untrimmed	75 200	100 300	200 600	200 600	200 600	200 600
Trimming ratios (single cut) ¹	5	1.5	2	3	4	8

Ranges/TCR/Tolerances²⁾:

1 R – < 10 R

TC 250

10/20%/30%

10 R – 10 M

TC 50/100

5/10/20/30%

Non-symmetric tolerances also available

Technical data – general:

Temperature range	–55°C... +155°C
Climatic category acc. to IEC 68	55/155/56
Solderability ³⁾	235°C/2 s (CRA) – 5 s (CRB)
Max. soldering temperature ⁴⁾	260°C/30 s (CRA) – 10 s (CRB)

Long term stability:	10 R – 10 M	< 10 R
Storage 125°C/1000 h	< 0.5 %	< 1 %
Storage 155°C/1000 h	< 1 %	< 2 %
Load P_{70} /70°C/1000 h	< 1 %	< 2 %
Damp heat (56d/40°C/96 %)	< 0.5 %	< 1 %

Data not specified: DIN 45 921, part 402 resp. CECC 40401-802

1) Detailed information on request

2) TC 50: Temperature range +25°C . . . + 125°C

3) DIN IEC 68 T2-20, Ta Meth. 1
(CRB: up to 6 months after shipment
resp. at storage in Nitrogen)

4) DIN IEC 68 T2-20, Tb Meth. 1A

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