

CRB-Series Trimmable Chip Resistors

Sizes: 0603, 0805, 1206, 1210, 1216, 1216H

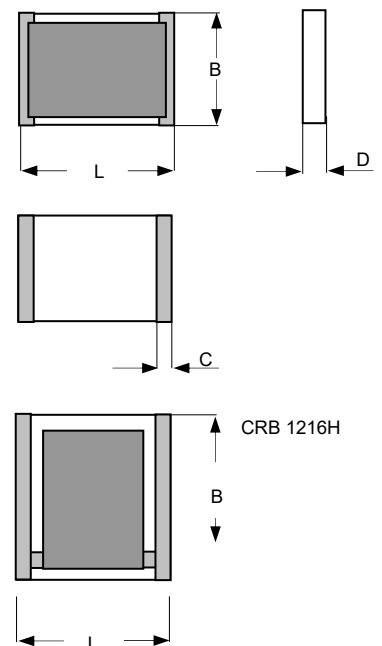
Features:

- Trimmable chip resistors in thick film technology (without pre-trimm; no trim cut)
- PtAg⁰⁾ terminations for soldering and conductive gluing
- Suitable for Laser and air-abrasive trimming
- High trimming ratios by special geometries
- High temperature application up to 300°C possible (CRB-HT)
- Suitable for high vacuum applications – no organics
- Non-magnetic



Dimensions:

Baugröße		L (mm)	B (mm)	D (mm)	C (mm)
Imperial (Standard)	Metric (Info)	Länge	Breite	Dicke	Breite Umkontakt
0603	1608	1.50 ^{+0.15/-0.05}	0.80 ^{+0.15/-0.05}	0.40 ^{+0.15/-0.05}	0.2 ^{+0.2/-0.1}
0805	2012	2.00 ^{+0.15/-0.05}	1.25 ^{+0.15/-0.05}	0.40 ^{+0.15/-0.05}	0.3 ^{+0.2/-0.1}
1206	3216	3.20 ^{+0.15/-0.05}	1.50 ^{+0.2/-0.05}	0.40 ^{+0.15/-0.05}	0.3 ^{+0.2/-0.1}
1210	3225	3.20 ^{+0.15/-0.05}	2.50 ^{+0.2/-0.05}	0.50 ^{+0.15/-0.05}	0.8 ^{±0.2}
1216	3240	3.20 ^{+0.2/-0.05}	4.00 ^{+0.2/-0.05}	0.50 ^{+0.2/-0.1}	0.4 ^{±0.2}
1216H	3240	3.20 ^{+0.2/-0.05}	4.00 ^{+0.2/-0.05}	0.50 ^{+0.2/-0.1}	0.4 ^{±0.2}



Packaging:

Bulk in plastic bags – minimum order quantity 100 pcs./value
 Blister tape acc. to IEC 60286-3 – minimum 500 pcs./value
 Reel diameter 180 mm or 330 mm

Ordering Data:

Type – value – tolerance – temperature coefficient TK
 Example: CRB 1216 100R ±20% - TK50

Without requirement for the temperature coefficient TK, the standard value (highest value in table) will be supplied.

⁰⁾ PtAg: Platinum-Silver thick film

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Technical data – depending on size:

Size	0603	0805	1206	1210	1216	1216H
Power rating P_{70} (mW) ($P_{155} = 0$ mW)	100	125	250	350	400	400
Working voltage U_{-} , U_{eff} (V) ³⁾						
trimmed (trimming by user)	75	100	200	200	200	200
untrimmed (as delivered)	220	300	600	600	600	600
Trimming ratios (single cut) ¹⁾	1,5	1,5	2	3	4	8

Ranges / Tolerances ⁴⁾ / Temperature coefficient TK ²⁾						
1R – < 10R	10/20/30% TK250	10/20/30% TK250	10/20/30% TK250	10/20/30% TK250	10/20/30% TK250	10/20/30% TK250
10R – 10M	5/10/20/30% TK50/100	5/10/20/30% TK50/100	5/10/20/30% TK50/100	5/10/20/30% TK50/100	5/10/20/30% TK50/100	5/10/20/30% TK50/100

¹⁾ Detailed information on request.

²⁾ Temperature coefficient TK: in ppm/K; +25°C...+125°C; TK below standard TK (highest value): +25°C...+85°C; TK50 not in the resistance range $R < 100R$

³⁾ Continuous operating voltage (U_{-} , U_{eff}): $V \leq \sqrt{P \cdot R}$ or max. working voltage (the lower value)

⁴⁾ Non-symmetric tolerances also available (e.g. -0/+20%)

Technical data – general:

Operating temperature range	- 55°C ... + 155°C
Climatic category acc. to EN 60068-1	55/155/56
Solderability acc. EN 60068-2-58 (lead-free and lead-containing) ⁵⁾	250°C 3s
Max. soldering temperature acc. EN 60068-2-58	260°C 10s
Moisture Sensitivity Level acc. to J-STD-020	MSL 1 (unlimited)

Extended temperature range up to 300°C possible (CRB-HT) - see datasheet: High temperature chip resistors

Long term stability	10R – 10M	<10R
Storage 125°C/1000h	<0,5%	<1%
Storage 155°C/1000h	<1%	<2%
Load P_{70} 70°C/1000h	<1%	<2%
Damp heat (56d/40°C/96%)	<0,5%	<1%

⁵⁾ Up to 6 months after shipment (air, 30°C/60%rH) or
up to 12 months at storage in Nitrogen or in evacuated dry packs.

Other data according to EN 140401-802 (CECC 40401-802).

Specifications subject to change without notice

Made in Germany

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SRT Resistor Technology GmbH
Am Farnbach 10
D-90556 Cadolzburg
Germany



Fon: +49 (0)9103 / 7952-0
Fax: +49 (0)9103 / 7952-99
E-mail: info@srt-restech.de
Internet: www.srt-restech.de