

# High-Precision-Chip-Resistors

## [voltage resistant up to 1,000 VDC]

### Series CRV

#### Features

- Design specification CECC 40 401-801
- Extended value range for all designs
- Tight tolerance range (down to 0.05%)
- Low TCR (down to 5 ppm/K)
- Extremely low noise
- High voltage resistant
- RoHS – compliant

#### Technical Data (size-dependent) <sup>1)</sup>

Value Range	1206 TCR/R-Tol.	2512 TCR/R-Tol.
5R1 - < 10R	≤ TC 25/≤± 0.1 %	≤ TC 25/≤± 0.1 %
10R - < 47R	≤ TC 10/≤± 0.1 %	≤ TC 10/≤± 0.1 %
47R - <100R	≤ TC 5/≤± 0.05 %	≤ TC 5/≤± 0.05 %
100R - 10K	≤ TC 5/≤± 0.05 %	≤ TC 5/≤± 0.05 %
> 10K - 100K	≤ TC 5/≤± 0.05 %	≤ TC 5/≤± 0.05 %
> 100K - 332K	≤ TC 5/≤± 0.05 %	≤ TC 5/≤± 0.05 %
> 332K - 511K	≤ TC 5/≤± 0.05 %	≤ TC 5/≤± 0.05 %
> 511K - 1M	≤ TC 5/≤± 0.05 %	≤ TC 5/≤± 0.05 %
> 1M - 2M	≤ TC 5/≤± 0.1 %	≤ TC 5/≤± 0.1 %
> 2M - 5M	≤ TC 15/≤± 0.1 %	≤ TC 10/≤± 0.1 %
> 5M - 15M	-	≤ TC 10/≤± 0.1 %

1) TCR – classification [ppm/K]: 5; 10; 15; 25; 50  
R-Tolerance classification [%]: 0.05; 0.1; 0.25; 0.5; 1

The data shown in this table  
are the best attainable values.

Other parameters on request.

Size	Stability class	1206	2512
Load Capacity P <sub>70</sub> (mW)	0.5; 1	250	750
	0.1	100	400
Nominal Voltage (VDC)	0.1; 0.5; 1	1,000	1,000

Stability class according to CECC 40 401-801



## Technical Data (general)

Operating temperature range: - 55 °C ... + 125 °C

Solderability (RoHS – compliant): 245 °C; 3 s

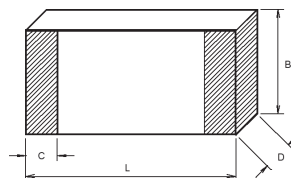
Resistance to soldering heat: 260 °C; 10 s

Long Term Stability	47 Ω -15 MΩ	< 47 Ω
Storage 125 °C/1,000 h	<± 0.15 %	<± 0.25 %
Storage 155 °C/1,000 h	<± 0.35 %	<± 0.5 %
Continuous load $P_{70}/70$ °C/1,000 h	<± 0.1 %	<± 0.25 %
Temperature/Humidity (56 d/40 °C/96 %)	<± 0.15 %	<± 0.5 %

Data unless otherwise specified: CECC 40 401-801

## Packages

RR1206, RR2512



## Dimensions

Size	metric	L	B	D	C
RR1206	RR3216M	$3.2 \pm 0.2$	$1.6 \pm 0.15$	$0.55 \pm 0.1$	$0.5 \pm 0.2$
RR2512	RR6332M	$6.3 \pm 0.2$	$3.2 \pm 0.2$	$0.55 \pm 0.2$	$0.5 \pm 0.2$

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

## Ordering Data

Example:  $\text{CRV } 1206 - 1M00 \pm 0.1 \% - \text{TK } 15 - \text{taped}$   
 Type      Unit      Tolerance      TC      form of delivery,  
 if not in bulk

## Customized Versions

- Layout adjustment
- The parameters are specified by the customer.
- A customized layout is developed and implemented technologically by our own development department.

## Delivery form

- Bulk or tape and reel tape according to DIN IEC 60286-3 (tape width: 8mm, reel diameter: 180 mm)
- Minimum quantity loose packed: 100 pieces per unit
- Minimum quantity for tape and reel: 500 pieces per unit

## Sales and Development

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