

# Chip resistor networks

## Series CRN

### Features

- Tight tolerance ranges (tracking down to 0.05%)
- Very low TCR (tracking down to 2ppm/K)
- Extremely low noise
- Approved for voltages up to 300 VDC
- RoHS – compliant

### Technical Data <sup>1)</sup>

	Resistivity	TCR abs.	TCR tracking	R-Tol. abs.	R-Tol. ratio
Value	10 Ω ... 5 MΩ	< 10 ppm/K	< 2 ppm/K	<± 0.1 %	< 0.05 %

1) TCR<sub>abs.</sub> – classes [ppm/K]: 10; 15; 25; 50  
 R-tolerance classes<sub>abs.</sub> [%]: 0,1; 0,25; 0,5; 1

The values in the table are the best possible values.  
 Not all combinations are possible on the same substrate. Please ask for more information.

Long Term Stability	DeltaR/R
Storage 125 °C/1,000 h	<± 0.15 %
Storage 155 °C/1,000 h	<± 0.35 %
Continuous power P <sub>70</sub> /70 °C/1,000 h	<± 0.1 %
Temperature/Humidity (56 d/40 °C/96 %)	<± 0.15 %

Data according CECC 40 401-801, if not otherwise specified.

Package RR 2512	Stability Class	mW
Load capacity P <sub>70</sub> (mW)	0.5; 1	750
	0.1	400
Isolating voltage (VDC)	0.1; 0.5; 1	300



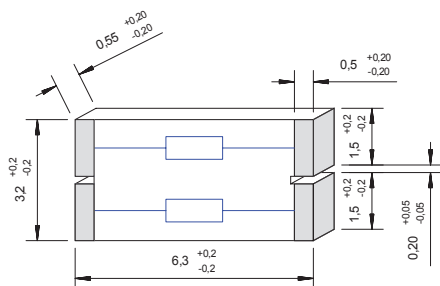
## Technical Data

Operating temperature range:  $-55\text{ °C} \dots +125\text{ °C}$

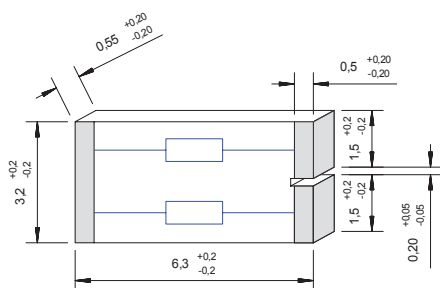
Solderability (RoHS – compliant):  $245\text{ °C}; 3\text{ s}$

Resistance to soldering heat:  $260\text{ °C}; 10\text{ s}$

## Dimensions



Voltage Divider



Single Resistor

## Customized Versions

- Layout adjustments
- Resistor data according to client's specification.
- Customized layout is designed in our development department for best product data.

## Ordering Information

- Resistor values and tolerance R1, R2 (absolute & ratio)
- TCR R1, R2 (absolute & tracking)
- Quantity, expected delivery date
- Specials

## Delivery form

- Bulk
- Tape & Reel acc. DIN IEC 60286-3 (tape with 8mm, reel diameter 180mm)
- Min. order quantity bulk: 100 units per value
- Min. order quantity tape & reel: 500 units per value

## Sales and Development

Tel. +49(0)36601 858 - 0