

### Networks – Thick film series

**Type: CNR**

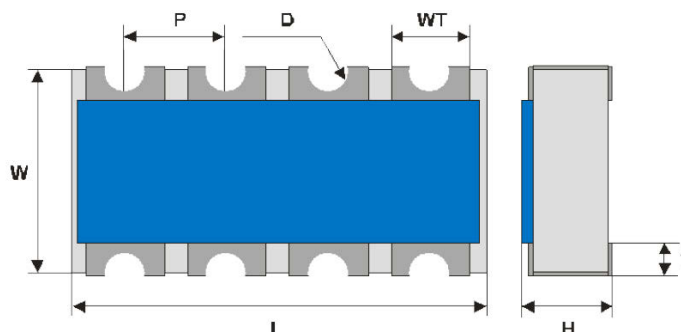
**Sizes: 1206-4 (4 x 0603)**

#### Characteristics:

- Chip resistors in thick film technology
- Four isolated value-equal resistors arranged on one chip to save space
- Contact inside round surfaces of ceramic
- Resistance area coated with glass and varnish passivation
- High stability and reliability
- Tight tolerances ( $\geq 1\%$ ) – low temperature coefficient
- RoHS-conform and Halogen-free according to IEC 61249-2-21 / IPC 4101B
- Customer specific barcodes available - also in 2D
- All sizes can be manufactured with the following contact variants
  - ⇒ Electroplated pure tin
  - ⇒ Contact with low rest permeability -N, suitable only for reflow soldering method (The recommended storage time should not exceed 1 year after date code)
  - ⇒ Epoxy bondable contact –K
  - ⇒ Special corrosive gas resistant contact –S, Sulfur resistance verified according to ASTM B 809

#### Dimensions (in mm):

L Length	W Width	H Depth	t Contact back	WT Contact width	P Contact spacing	D Contact radius
3,2 ± 0,10	1,6 ± 0,10	0,6 ± 0,10	0,3 ± 0,10	0,5 ± 0,10	0,8	0,3



#### Packaging units (VPE):

Reel Ø	Card tape acc. EN 60286-3
180 mm	5 T pcs.
330 mm	10 T pcs. 20 T pcs.
Samples on request	

#### Ordering information:

CNR	-N	1206-4	4k7	1%	50ppm/K	K	P	10 (optional)
Type	Contact	Size	R-Value	± Tolerance	± TCR	Marking	Packaging	pcs. / Reel (T pcs.)
CNR	Standard (without add.) -N (non magnetic) -K (epoxy bondable) -S (corrosive gas resistant)	1206-4	10R . to 1M	1 . 5	50 . 100	K- only with	P- Card tape S- Bulk	5 . 10 . 20

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### Technical data – depending on size:

Size	Nominal voltage U <sub>max</sub> (V)	Load P <sub>70</sub> (W)	R-Range	R-Tolerance (± %)	TCR (± ppm/K)	Packaging		
						P	B	S
1206-4	50	4 x 0,063	10R - 1M	1 / 5	50 / 100	x		x

### Technical data - general:

Technical data	
Operating temperature range	-55°C ... +155°C
Climatic category acc. EN 60068	55 / 155 / 56
Solderability acc. EN 60068-2-58	245°C 3s
Soldering heat resistance acc. EN 60068-2-58	±( 0,5% + 0,05R ) at 260°C 10s
Long time stability	
Storage 155°C / 1000h	± ( 1,0% + 0,05R )
Endurance P <sub>70</sub> / 70°C / 1000h	± ( 0,5% + 0,05R )
Damp heat, steady state (56d / 40°C / 93%)	± ( 1,0% + 0,05R )

Data, unless specified, acc. EN 140401-802.