

**Networks – Thick film series**

Type: **CNR**

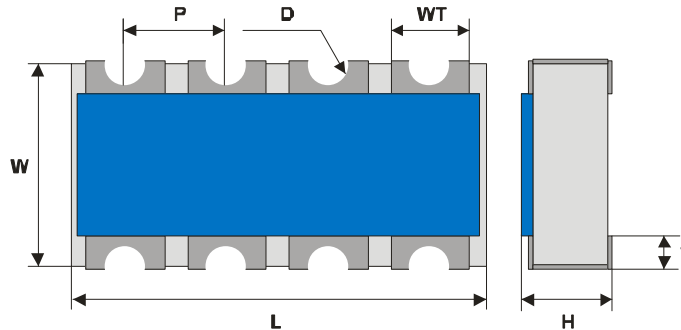
Sizes: **1206-4 (4 x 0603)**

**Characteristics:**

- Chip resistors in thick film technology
- Four 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
- Customer specific barcodes available - also in 2D
- All sizes can be manufactured with the following contact variants
  - ⇒ Electroplated alloy resistant tinned
  - ⇒ Contact with low rest permeability -N, suitable only for reflow soldering method
  - ⇒ 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 possible up to 50 pcs./value	

**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 / 96%)	± ( 1,0% + 0,05R )

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