

Precision-R-Networks

Type: HPN

Sizes: SIL, DIL

Features:

- Thinfilm (NiCr) on Alumina
- Standard types and custom networks
- Relative-data (tolerance, TCR and stability) much closer than with single resistors
- DIL available for SMT

Standard dimensions:

Hight: 6.0 mm, 8.0 mm, 11.0 mm, 13.5 mm

Lead spacing: 1.27 mm, 2.5 mm, 2.54 mm

Length: Lead spacing x Number of contacts + 3.5 mm
(detailed drawing on request)

Standard Types:

Resistor bridges, single resistors and current-divider
(detailed data on request)

Inquiry and ordering data:

Maximum dimensions

Number and connection of resistors

Resistance values

Tolerance and TCR (absolute and relative)

Power rating

Temperature range

Stability requirements

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Technical data:

Power rating P_{70} ($P_{125} = 0$ mW)		10 mW/mm ² at tolerance ≤ 0.25 % 20 mW/mm ² otherwise
Resistance range		10 R... 10 M
Working voltage U_{-} , U_{eff}		250 V (spezial versions > 1 kV)
Tolerance	absolute relative	± 0.05 ; ± 0.1 ; ± 0.25 ; ± 0.5 ; ± 1 % < 0.025 ¹⁾ ; < 0.05; < 0.1 %; 0.25 %
TCR	absolute relative	± 5 ¹⁾ , ± 10 ²⁾ , ± 25 , ± 50 , $\times 10^{-6}$ /K < 2 ¹⁾ , < 5 ²⁾ , < 10, < 25 $\times 10^{-6}$ /K

¹⁾ Temperature range 0 ... + 70°C

²⁾ Temperature range -25 ... + 125°C

Technische Daten - allgemein:

Operating temperature range	- 55°C ... + 125°C
Storage temperature range	- 55°C ... + 155°C
Climatic category acc. to DIN EN 60068-1	25/125/56
Solderability DIN EN 60068-2-58 (lead-free and lead-containing)	250°C 3 s
Max. soldering temperature DIN EN 60068-2-58	260°C 10 s

Long term stability		1000 h	10000 h
Storage 125°C/ 1000 h	absolute relative	< 0.01 % < 0.02 %	< 0.03 % < 0.01 %
Overload (100 %/ 10 s)	absolute relative	< 0.05 % < 0.01 %	
Damp heat (56 d / 40°C /96%)	absolute relative	< 0.01 % < 0.02 %	