

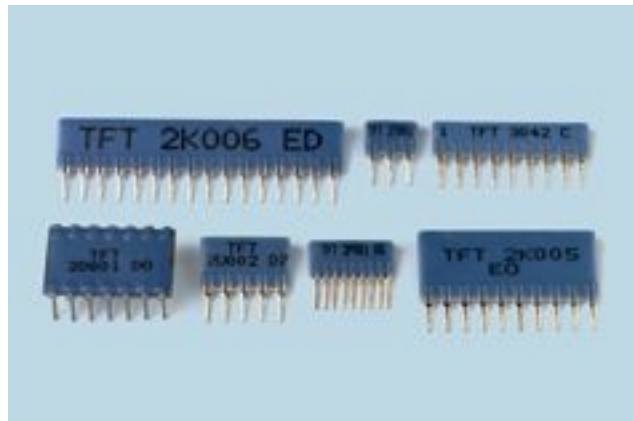
Precision-R-Networks

Typeg: **HPN**

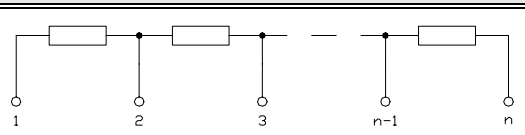
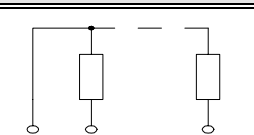
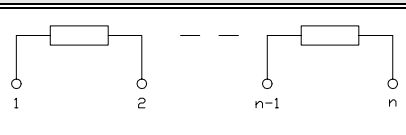
Sizes: **SIL, DIL, SMD**

Features:

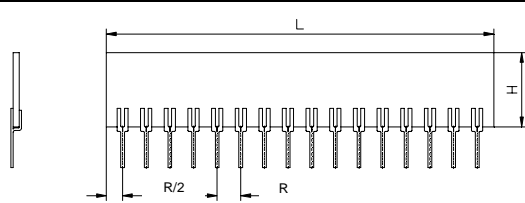
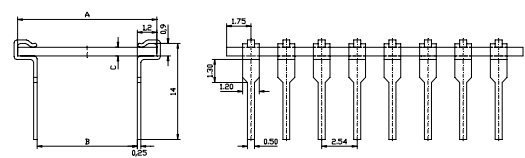
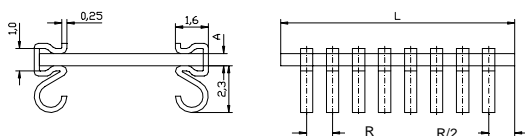
- Thinfilm (NiCr) on Alumina
- Standard types and custom networks
- Relative-data (tolerance, TCR and stability) much closer than with single resistors
- DIL available for SMT



Examples of circuits:

Resistor bridges	Current-dividers	Single resistors
		

Standard dimensions:

Size		
SIL		H = 6,0; 8,0; 11,0; 13,5 mm R = 1,27; 2,54 L = R x Number of contacts
DIL		A = 7,5 mm; 10 mm B = 5 mm; 7,5 mm C = 0,6...0,75 mm
SMD		A = 7,5 mm; 10 mm R = 1,27; 2,54 L = R x Number of contacts

Technical Data:

Power rating P ₇₀	20 mW/mm ² 10 mW/mm ² for applications of high precision
Resistance range	10 Ω...10 MΩ
Working voltage	250 V (special versions > 1 kV)
Tolerance	absolute relative ± 0,05; ± 0,1; ± 0,25; ± 0,5; ± 1% < 0,025 ¹⁾ ; < 0,05; < 0,1%
TCR	absolute relative ± 5 ¹⁾ ; ± 10; ± 25; ± 50 *10 ⁻⁶ /K 2; 5; 10 *10 ⁻⁶ /K
Operating temperature range Climatic category acc. to DIN IEC 68	-55 °C...+125 °C 25/125/56
Solderability ²⁾ Max. soldering temperature ³⁾	235 °C 2s 260 °C 10s

Long term stability		1000 h	10 000h
Storage 125 °C oder Load P70/70 °C	absolute relative	< 0,1 % < 0,02 %	< 0,3 % < 0,1 %
Overload (100%/10s)	absolute relative	< 0,05 % < 0,01 %	
Damp heat (56d/40°C/96%)	absolute relative	< 0,1 % < 0,02 %	

¹⁾ Temperature range 0...+70°C

²⁾ DIN IEC 68 T2-20, Ta Meth.1

³⁾ DIN IEC 68 T2-20, Ta Meth.1A

Other specifications on request.

Customer-specific version:

- Any circuits are possible.
- The parameters of the resistance values are specified by the customer. A customer-specific layout is planned in the company's own development department and implemented technologically.

Ordering data:

- Maximum dimensions
- Number and connection of resistors
- Resistance values
- Tolerance and TCR (absolute and relative)
- Power rating
- Temperature range
- Stability requirements

Packaging: Packed in deep-drawing foil

Stand: 11/98