

Resistor networks

Series HPN

Features

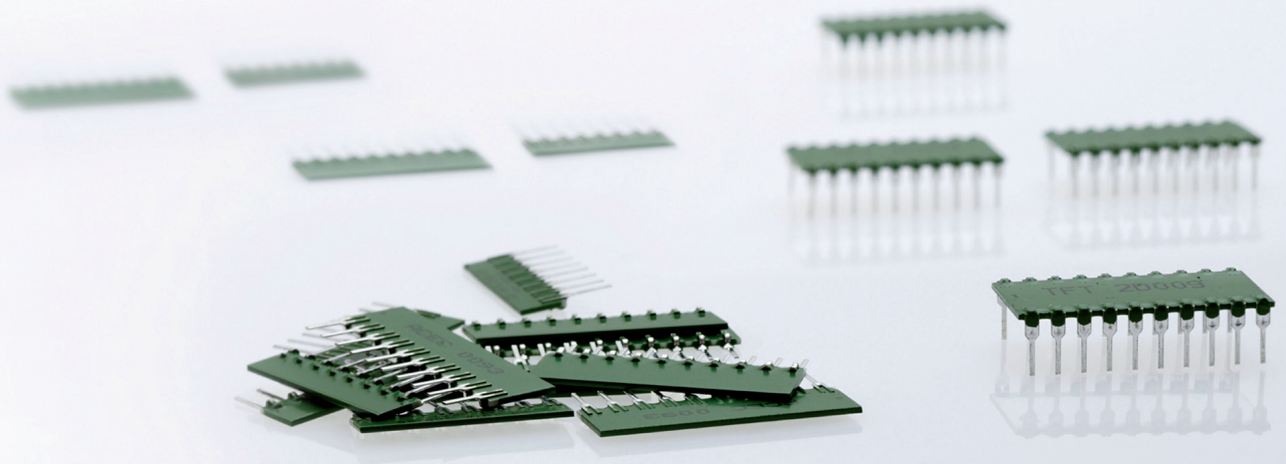
- Thin film technology applied on ceramic substrates
- Standard and customized models
- Advantage is the excellent ratio and tracking data
- Available as SMD and THD versions (SIL, DIL)
- RoHS – compliant

Technical Data

Load capacity P_{70}	20 mW/mm ² 10 mW/mm ² for extremely high precision applications	
Range of values	5 Ω ... 10 M Ω	
Isolating voltage	300 VDC (1,000 VDC on request)	
R-Tol.	absolute ratio	± 0.05 ; ± 0.1 ; ± 0.25 ; ± 0.5 ; ± 1 % < 0.025; < 0.05; < 0.1 %
TCR	absolute tracking	± 5 ¹⁾ ; ± 10 ; ± 25 ; ± 50 ppm/K 2 ¹⁾ ; 5; 10 ppm/K
Operating temperature range	- 40 °C ... + 125 °C	
Solderability ²⁾	245 °C 3 s	
Soldering heat resistance ³⁾	260 °C 10 s	

1) Temperature range 0 ... + 75 °C; 2) DIN IEC 68 T2-20, Ta Meth.1; 3) DIN IEC 68 T2-20, Ta Meth.1A

Long Term Stability		1,000 h	10,000 h
Storage 125 °C Continuous power $P_{70}/70$ °C	absolute ratio	< ± 0.1 % < 0.02 %	< ± 0.3 % < 0.1 %
Overload (100 %/10 s)	absolute ratio	< ± 0.05 % < 0.01 %	
Temperature/Humidity (56 d/40 °C/96 %)	absolute ratio	< ± 0.1 % < 0.02 %	



Package Types

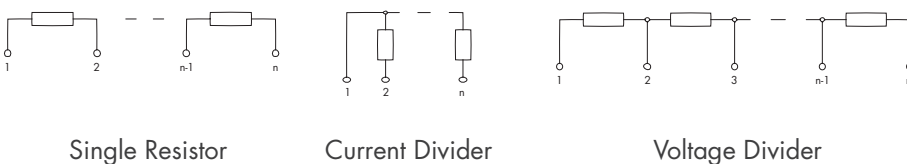
- SIL
- DIL
- SMD

Dimensions

Package Type		
SIL	H = 6.0; 8.0; 11.0; 13.5 mm R = 1.27; 2.54 mm L = R x Number of Pins	
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 mm L = R x Number of Pins	

Other versions on request.

Schematics (examples)



Customized Versions

- Most schematics can be realized.
- Resistor data according to client's specification.
- Customized layout is designed in our development department for best product data.

Ordering Information

- Resistor value and tolerance (absolute & ratio)
- TCR (absolute & tracking)
- Schematic
- Load capacity
- Dimensions
- Operating temperature range
- Specials
- Quantity, expected delivery date

Delivery form

- Tray (specific, if necessary)

Sales and Development

Tel. +49(0)36601 858 - 0