High-Precision-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

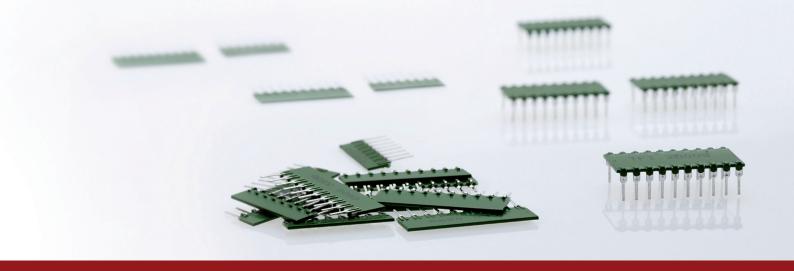
Technical Data

Load Capacity P ₇₀		20 mW/mm ² 10 mW/mm ² for extremly high precision applications	
Range of Values		5 Ω 10 MΩ	
Isolating Voltage		300 VDC (up to 1 kVDC 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	absolute	<± 0.1 %	<± 0.3 %
Continuous Power P ₇₀ /70 °C	ratio	< 0.02 %	< 0.1 %
Overload (100 %/10 s)	absolute ratio	<± 0.05 % < 0.01 %	
Temperature/Humidity	absolute	<± 0.1 %	
(56 d / 40 °C / 96 %)	ratio	< 0.02 %	





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	1.75 8
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.

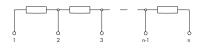
Package Types

- · SIL
- · DIL
- · SMD

Schematics (examples)







Single Resistor

Current Divider

Voltage Divider

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

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