

SMT-Precision-R-Networks

Type: SCN

Sizes: SOT 143, SOT 223, SO 8, SO 14, SO 16, SO 20L



Features:

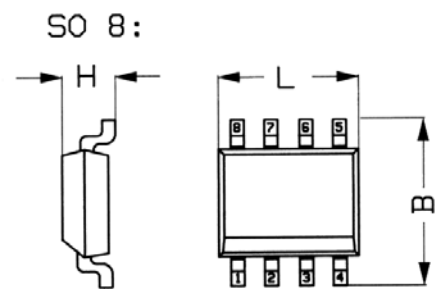
- Thinfilm (NiCr) on passivated Si- or Alumina-substrate
- Standard types and custom networks
- Relative-data (tolerance, TCR and stability) much closer than with single resistors

Sizes:

Size	L	B	D	n
SOT 143	3.0	2.5	1.1	4
SOT 223	6.5	7.0	1.6	4
SO 8	5.1	6.0	2.0	8
SO 14	8.9	6.0	2.0	14
SO 16	10.2	6.0	2.0	16
SO 20L	13.0	10.5	2.65	20

L = Length, B = Width, D = Thickness, C = Width wrap around (in mm)
(detailed drawings on request)

Example



Standard versions:

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

Inquiry and ordering data:

Size
Number and connection of resistors
Resistance values
Tolerance and TCR (absolute and relative)
Power rating
Temperature range
Stability requirements
Packaging (bulk, tape/reel, magazine)

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Technical data – depending on size

Size	SOT 143	SOT 223	SO 8	So 14	SO 16	SO 20L
Power rating P ₇₀ (P ₁₂₅ = 0 mW)	125	250	250	250	250	500
Resistance range	10R / 1M	10R / 5M	10R / 5M	10R / 10M	10R / 10M	10R / 10M

Technical data - general:

Working voltage U ₋ , U _{eff}	100 V Silizium, 250 V Keramik
Tolerance absolute relative	± 0.05 ; ± 0.1 ; ± 0.25 ; ± 0.5 ; $\pm 1\%$ < 0.025 ¹⁾ ; < 0.05; < 0.1%
TCR absolute relative	± 5 ¹⁾ , ± 10 ²⁾ , ± 25 , ± 50 , $\times 10^{-6}/K$ < 1 ¹⁾ , < 2 ²⁾ , < 5, < $10^{-6}/K$
Operating temperature range	- 55°C ... + 125°C
Storage temperature range	- 55°C ... + 155°C
Climatic category acc. to IEC 60068	25/125/56
Solderability IEC 60068 T2-20, Ta Meth. 1	235°C 2s
Max. soldering temperature IEC 60068 T2-20, Tb Meth. 1A	260°C 10s

Long term stability		Tol. $\leq 0.25\%$		Tol. > 0.25%	
		1000 h	10000 h	1000 h	10000 h
Storage 125°C/1000h	absolute relative	< 0.02% < 0.005%	< 0.06% < 0.02%	< 0.05% < 0.01%	< 0.1% < 0.05%
Storage 155°C/1000h	absolute relative	< 0.1% < 0.05%	< 0.2% < 0.1%	< 0.2% < 0.1%	< 0.5% < 0.2%
Damp heat (56d/40°C/96%)	absolute relative	< 0.05% < 0.01%		< 0.10% < 0.05%	

¹⁾ Temperature range 0 ... + 70°C

²⁾ Temperature range -25 ... + 125°C

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