

SMT-Precision-R-Networks

Type: SCN

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



Features:

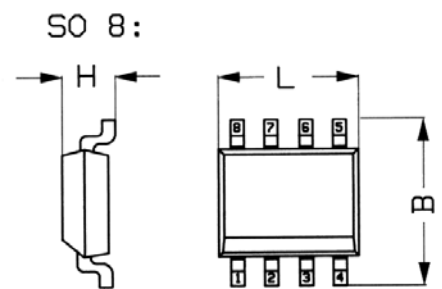
- Thinfilm (NiCr) on passivated Si- or Alumina-substrate
- Standard types and custom networks
- Relative-data (tolerance, TCR and stability) much closer than with single resistors

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; ± 1% < 0.025 ¹⁾ ; < 0.05; < 0.1% |
| TCR absolute relative | ± 5 ¹⁾ , ± 10 ²⁾ , ± 25, ± 50, x 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. ≤ 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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