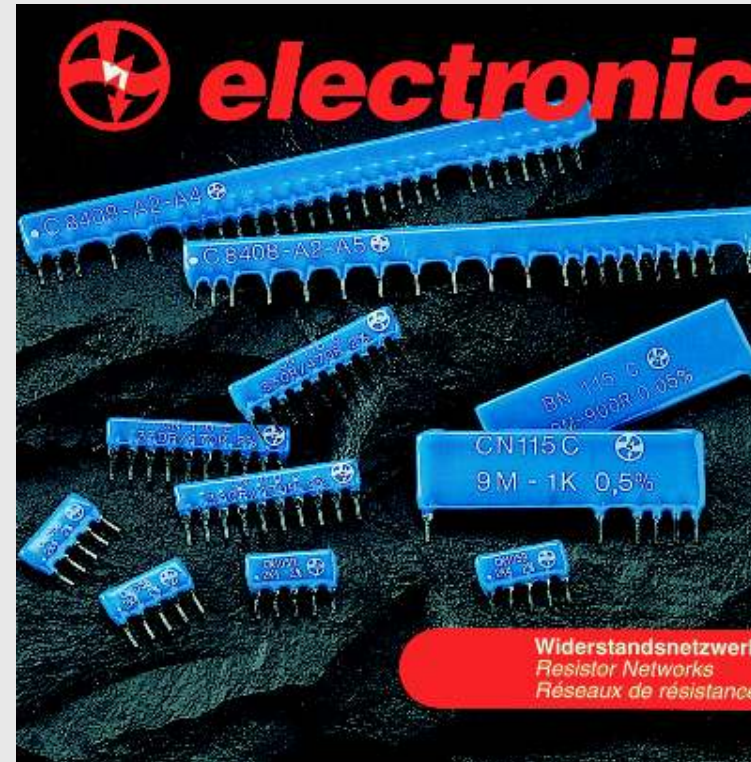


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electronic
sensor + resistor

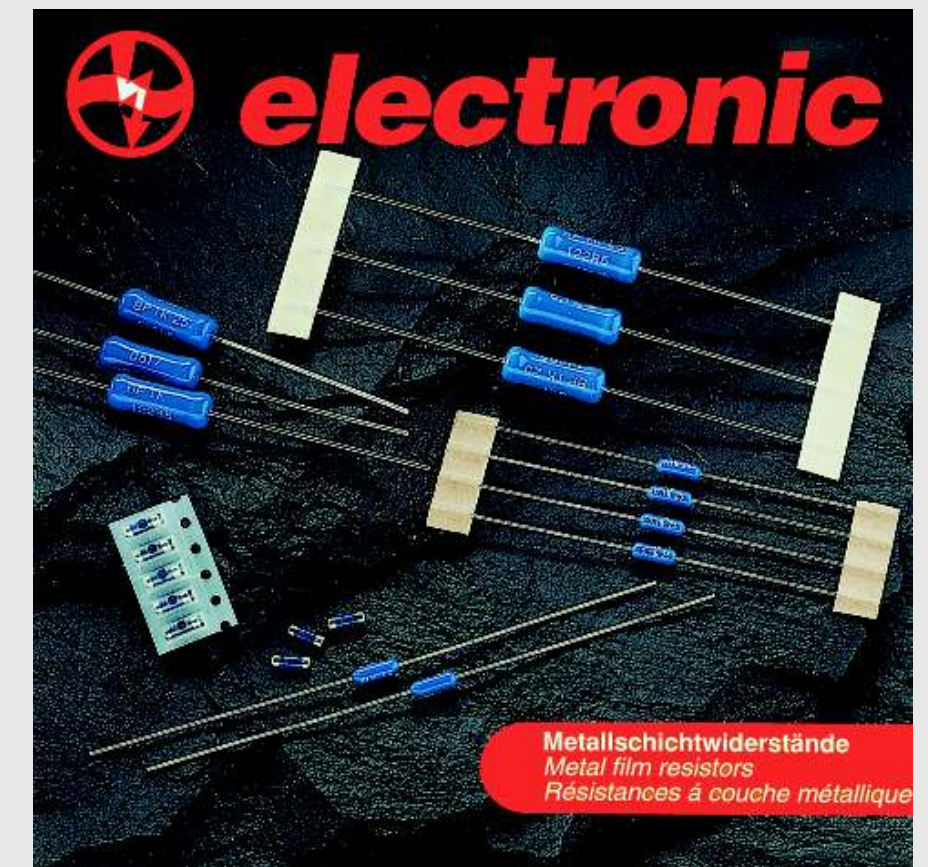
PRECISION - RESISTORS AND
RESISTOR - NETWORKS IN
METALFILM - OR
THICKFILM-TECHNOLOGY



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single resistors within 1 week

| | METALFILM | | | | | THICKFILM | | | | | | | | | | | | | | |
|--|-----------------------------------|-----------|---------------|--|-------------------|------------------------------|-----------------|-----------------|-----------------|-----------------|--|---|----------|------------------|----------|--|----------|---|-----|-----|
| | PRECISION RESISTORS | | | SIL-NETWORKS | | SIL- / FLIP CHIP - RESISTORS | | | | | SIL-NETWORKS | | | | | RESISTIVE ELEMENTS | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Type | MELF 0207 | BP 0207 | BP 0617 | BN 115 | BK 1xx | CS003 CS003C | CS004 CS004C | CS005 CS005C | CS006 CS006C | CS007 CS007C | CS009 | CN106A CN106B | CN107B | CN108A CN108B | CN109B | CN110A CN110B CN110C | CN115C | | | |
| Rated Dissipation P ₇₀ [W] | 0,4 | 0,4 | 0,65 | 0,14 / resistor | | 0,125 | 0,25 | 0,4 | 0,7 | 1,5 | 3 | Version A : 0,25 / res. Version B : 0,15 / res. | | | | | 0,14 | Potentiometric rotative elements printed on ceramic or FR4 Potentiometric linear elements printed on ceramic or FR4 up to 300mm length | | |
| Limiting Element Volt. [V] | 300 | 300 | 500 | max. 1200 | customer specific | 100 | 250 | 750 | 2000 | 10000 | 20000 | 100 | | | | | 1200 | | | |
| Dimensions (H x W) [mm] | 2,1 x 5,5 | 2,5 x 6,5 | 5,8 x 15,2 | 13 x max. 52 | | 6 x 5 | 6 x 7,3 | 6 x 12,5 | 6 x 22,5 | 9 x 39 | 9 x 78 | 6 x 15 | 6 x 17,4 | 6 x 19,8 | 6 x 22,3 | 6 x 25,3 | 13 x 39 | | | |
| Thickness [mm] | | | | 3,9 | | 2,5 | 2,5 | 2,5 | 2,5 | 2,5 | 2,5 | 2,5 | 2,5 | 2,5 | 2,5 | 2,5 | 2,5 | | | |
| Resist. Range from [Ohm] | 1 | 1 | 3 | 900 / 1 K | 10 | 100 | 10 K | 10 K | 100 K | 100 K | 1 M | 10 | | | | | 1K (900) | | | |
| Resist. Range to [Ohm] | 5 M | 10 M | 10 M | 10 M | 500 M | 500 M | 1 G | 10 G | 10 G | 10 G | 20 G | 10 G | | | | | 10 M | | | |
| Tolerance [%] | ±0,05 / 0,1 / 0,25 / 0,5 / 1 | | | ±0,05 / 0,1 / 0,25 | | ±0,5 / 1 / 2 / 5 / 10 | | | | | ±1 / 2 / 5 | | | | | abs.: ±10...±20 ; lin: 0,5...2 | | | | |
| Temp.Characteristics [10 ⁻⁶ /K] | ±3 / 5 / 10 / 15 / 25 / 50 | | ±10 / 15 / 25 | ±3 / 5 / 10 / 15 / 25 / 50 | | ± 100 / 250 | | | | | ±100 | | | | | ±300 | | | | |
| Features: | customer specific resistor values | | | customer specific values, max. 32 Pins | | customer specific values | | | | | customer specific values, max. 32 Pins | | | | | customer specific layout and resistance values | | | | |
| Specifications for Networks: (different resistance-values for each resistor possible) | | | | A: single C: divider B: common | | | | | | | A: single C: divider B: common | | | | | | | | | |
| Circuit | | | | divider (C) | customer specific | | | | | | A, B, C customer specific (CK 1xx) | | | | | | | | | |
| Max. Numbers of Resistors | | | | 5 | 18 | | | | | | 3 / 5 | 6 | 4 / 7 | 8 | 5 / 9 | 5 | 4 | 8 | 8 | 16 |
| Tolerance Tracking [%] | | | | 0,05 / 0,1 | 0,025 - 1 | | | | | | min. 0,2 possible | | | | | < 0,5 | 0,2 | 0,2 | 0,2 | 0,2 |
| TC - Tracking [10 ⁻⁶ /K] | | | | 25 | 2 - 25 | | | | | | < 5 | | | | | < 50 | < 5 | < 5 | < 5 | < 5 |

(10/08)

more than 50 years in service with our customers - support, development and production

