

Applications

- Automotive electronics, e.g.
 - measurement of cooling water and oil temperature

Features

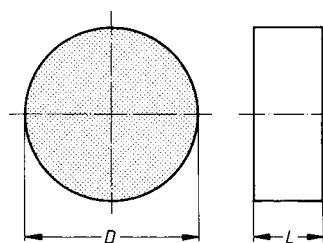
- Thermistor disk with lapped, coplanar front surfaces
- Front surfaces silver-plated
- For clamp contacting
- UL approved type (up to 125 °C operating temperature)

Options

Alternative resistance ratings, rated temperatures and resistance tolerances available on request

Delivery mode

Bulk



 Termination

TNT0088 -P

$D = 2,9 \pm 0,3 \text{ mm}$

$L = 1,3 \pm 0,3 \text{ mm}$

Approx. weight 50 mg

| | | | |
|--|---------------------|--------------|------|
| Climatic category (IEC 60068-1) | | 55/250/21 | |
| Max. power at 25 °C | P_{25} | 180 | mW |
| Resistance tolerance | $\Delta R_N / R_N$ | $\pm 5 \%$ | |
| Rated temperature | T_N | 20 | °C |
| B value tolerance | $\Delta B / B$ | $\pm 1,5 \%$ | |
| Dissipation factor (in air) | $\delta_{th}^{(1)}$ | approx. 2,5 | mW/K |
| Thermal cooling time constant (in air) | $\tau_c^{(1)}$ | approx. 12 | s |
| Heat capacity | $C_{th}^{(1)}$ | approx. 30 | mJ/K |

| R_{20} | R_{25} | No. of R/T characteristic | $B_{25/100}$ | Ordering code |
|----------|----------|-----------------------------|--------------|-----------------|
| Ω | Ω | | K | |
| 2,5 k | 2056,9 | 1008 | 3560 | B57220K0212A003 |

1) Depends on mounting situation

Reliability data

| Test | Standard | Test conditions | $\Delta R_{25}/R_{25}$ (typ.) | Remarks |
|---------------------------------------|----------------|---|-------------------------------|-------------------|
| Storage in dry heat | IEC 60068-2-2 | Storage at upper category temperature $T: 250\text{ }^{\circ}\text{C}$ $t: 1000\text{ h}$ | < 3 % | No visible damage |
| Storage in damp heat, steady state | IEC 60068-2-3 | Temperature of air: $40\text{ }^{\circ}\text{C}$ Relative humidity of air: 93 % Duration: 21 days | < 3 % | No visible damage |
| Rapid temperature cycling | IEC 60068-2-14 | Lower test temperature: $-55\text{ }^{\circ}\text{C}$ Upper test temperature: $155\text{ }^{\circ}\text{C}$ Number of cycles: 100 | < 3 % | No visible damage |
| Endurance | | P_{max} : 180 mW $t: 1000\text{ h}$ | < 3 % | No visible damage |
| Long-term stability (empirical value) | | Temperature: $125\text{ }^{\circ}\text{C}$ $t: 10\ 000\text{ h}$ | < 5 % | No visible damage |

Herausgegeben von EPCOS AG

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