

Applications

- Heating systems
- Industrial electronics
- Automotive electronics

Features

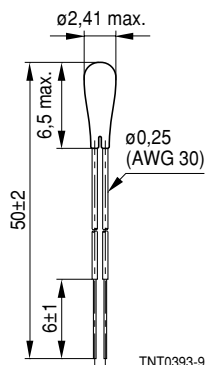
- Fast response
- High measuring accuracy, close *B* value tolerance
- Excellent long-term stability
- Epoxy resin encapsulation
- PTFE-insulated leads of silver-plated nickel wire, AWG 30

Options

Non-standard lead lengths

Delivery mode

Bulk



Dimensions in mm
Approx. weight 60 mg

| | | | |
|--|------------------|--------------|------|
| Climatic category (IEC 60068-1) | | 40/100/56 | |
| Max. power at 25 °C | P_{25} | 60 | mW |
| Resistance tolerance | $\Delta R_N/R_N$ | ± 1,0 % | |
| Rated temperature | T_N | 25 | °C |
| <i>B</i> value tolerance | $\Delta B/B$ | ± 0,3 % | |
| Dissipation factor (in air) | δ_{th} | approx. 1,5 | mW/K |
| Thermal cooling time constant (in air) | τ_c | approx. 15 | s |
| Heat capacity | C_{th} | approx. 22,5 | mJ/K |

| R_{25} | No. of <i>R/T</i> characteristic | $B_{25/100}$ | Ordering code |
|----------|----------------------------------|--------------|-----------------|
| Ω | | K | |
| 5 k | 8016 | 3988 | B57861S0502F045 |
| 10 k | 8016 | 3988 | B57861S0103F045 |
| 30 k | 8018 | 3964 | B57861S0303F045 |

Reliability data

| Test | Standard | Test conditions | $\Delta R_{25}/R_{25}$ (typical) | Remarks |
|---------------------------------------|-------------------|--|-------------------------------------|-------------------|
| Storage in dry heat | IEC 60068-2-2 | Storage at upper category temperature <i>T</i> : 100 °C <i>t</i> : 1000 h | < 1 % | No visible damage |
| Storage in damp heat, steady state | IEC 60068-2-3 | Temperature of air: 40 °C Relative humidity of air: 93 % Duration: 56 days | < 1 % | No visible damage |
| Rapid temperature cycling | IEC 60068-2-14 | Lower test temperature: – 40 °C Upper test temperature: 100 °C Number of cycles: 100 | < 1 % | No visible damage |
| Long-term stability (empirical value) | | Temperature: 70 °C <i>t</i> : 10 000 h | < 2 % | No visible damage |

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