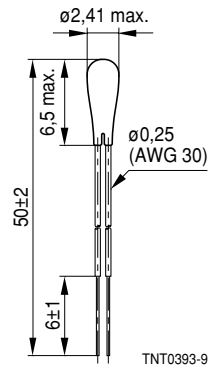


Applications

- Heating and air conditioning systems
- Industrial electronics
- Automotive electronics

Features

- Uni curve sensor
- Fast response
- High temperature accuracy between 0 °C and 70 °C
- Excellent long-term stability
- Epoxy resin encapsulation
- PTFE-insulated leads of silver-plated nickel wire, AWG 30



TNT0393-9

 Dimensions in mm
 Approx. weight 60 mg

Delivery mode

Bulk

| | | | |
|--|---------------|--------------------|------|
| Climatic category (IEC 60068-1) | | 55/155/56 | |
| Max. power at 25 °C | P_{25} | 60 | mW |
| Temperature tolerance (0 ... 70 °C) | ΔT | $\pm 0,2, \pm 0,5$ | K |
| Rated temperature | T_N | 25 | °C |
| 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 R/T characteristic | $B_{25/100}$ | Ordering code |
|----------|-----------------------------|--------------|-----------------|
| Ω | | K | |
| 3 k | 8016 | 3988 | B57863S0302+040 |
| 5 k | 8016 | 3988 | B57863S0502+040 |
| 10 k | 8016 | 3988 | B57863S0103+040 |
| 30 k | 8018 | 3964 | B57863S0303+040 |

 +: F for $\Delta T = 0,2$ K

 G for $\Delta T = 0,5$ K

For calculation of the R/T characteristics refer to our special tool "NTC R/T calculation". You may download this tool either from Internet (<http://www.epcos.com>) → Design Tools → NTC Thermistors → NTC R/T Calculation) or from the CD-ROM "Data Book Library" (Please order via Internet: Publications → General Publications).

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 T: 155 °C t: 1000 h | < 1 % < 2 % 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: – 55 °C Upper test temperature: 155 °C Number of cycles: 100 | < 1 % | No visible damage |
| Long-term stability (empirical value) | | Temperature: 70 °C t: 10 000 h | < 2 % | No visible damage |

1) For B57863S0302+040

Herausgegeben von EPCOS AG

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