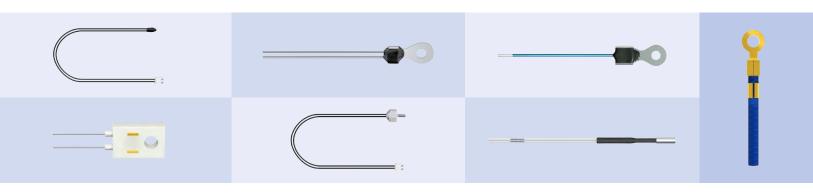


Sample Kit 2022

NTC Thermistors

for Temperature Measurement in Industrial Applications



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Overview of NTC thermistors included in the sample kit

| Туре | | E861 | M703 | M703 | M703 |
|---|--------|---|--|---|---|
| Ordering code | | B57861E0103A010 | B57703M0103G040 | B57703M0103A018 | B57703M0103A025 |
| | | | | | |
| Customer benefits | | Ready to use NTC element | Easy to mount screw-on NTC sensor Cost effective | Flexible wire length Enables connector assembly Easy to mount screw-on NTC sensor | Usage in high voltage applications Easy to mount screw-on NTC sensor |
| Features | | Head diameter max. 2.7 mm Equipped with JST connector | Ring tongue for M3/ M3.5 screws UL approval (E69802) | Ring tongue for M3/ M3.5 screws UL approval (E69802) | Insulation strength of 2880 V AC Ring tongue for M4 screws UL approval (E69802) |
| Wire specification: length, material, diameter | | 200 mm, PTFE, multi-strand AWG 26 | 45 mm, PTFE, single strand AWG 30 | 200 mm, PTFE, multi-strand AWG 26 | 220 mm, PTFE, multi-strand AWG 26 |
| Operating temperature | °C | –40 +155 | -55 +125 | -55 +125 | -40 +125 |
| Nominal resistance @25 °C | Ω | 10000 ±2% | 10000 ±2% | 10000 ±2% | 10000 ±2% |
| B _{25/100} | K | 3988 ±1% | 3988 ±1% | 3988 ±1% | 3988 ±1% |
| Insulation voltage | V AC/s | 500 | 1000 | 1000 | 2880 |
| Response time | s | 10 (in air) | 5 (on metal plate) | 7 (on metal plate) | 11 (on metal plate) |
| Dimensional drawings | mm | 6.5 max. 200±10 TNT0724-K | AWG 30 3.7±0.1 TNT0600-8 | AWG 26 3.7±0.1 | 45±5 2.2 min eq 20 max 4.4±0.1 TNT0721-K |
| Number | | 0 | 2 | 3 | 4 |





Environmental protection for all types



For more information go to the TDK product center

| M1703 | M702 | M704 | K45 | K524 | K550 | | | | |
|--|--|---|---|---|---|--|--|--|--|
| B57703M1104A002 | B57702M0103J000 | B57704M0103A001 | B57045K0103A002 | B57524K0104A005 | B57550K0104A001 | | | | |
| | | ===== | ===//==C= | | | | | | |
| Usage in high temperature applications Resistance against higher pull strength | Cost effective Easy to mount screw-on NTC sensor | For automatic assembly | Easy to mount screw-in NTC sensor Flexible wire length | Immersion sensor Usage in high temperature applications | Immersion sensor for limited space appli- cations Usage in high tempera- ture applications | | | | |
| Maximum operating temperature of 300 °C (sensor head) Ring tongue with crimp fixation on wire UL approval (E69802) | 2.5 mm lead spacing Ring tongue for M3/ M3.5 screws UL approval (E69802) | 3.5 mm lead spacing Mounting hole diameter of 3.3 mm for M3 screw * M3 thread* | | 6 x 45 mm stainless steel casing | 4 x 13 mm stainless steel casing Fast response time | | | | |
| 320 mm, PTFE, multi-strand AWG 26 | 35 mm, Cu-clad steel with tin plating, single-strand, Ø 0.5 mm | 15 mm, Cu with tin plating, single-strand, Ø 0.5 mm | 200 mm, PTFE, multi-strand AWG 26 | 600 mm, FEP, multi-strand AWG 22 | 110 mm, FEP, multi-strand AWG 26 | | | | |
| +10 +200 (300 °C sensor tip) | -40 +125 | -40+125 | -40 +125 | 0 +230 | 0 +200 (230 °C sensor tip) | | | | |
| 100000 ±3% | 10000 ±5% | 10000 ±2% | 10000 ±2% | 100000 (2.5% @ 160 °C) | 100800 (2.5% @ 160 °C) | | | | |
| $B_{0/100} = 4036 \pm 1\%$ | 3950 ±3% | 3964 ±1% | 3988 ±1% | $B_{0/100} = 4036 \pm 2\%$ | 4092 ±1.5% | | | | |
| 1250 | 500 | 4000 | 1250 | 1250 | 1250 | | | | |
| 8 (on metal plate) | 7 (on metal plate) | 34 (on metal plate) | 18 (on metal plate) | 24 (in water) | 1.8 (in water) | | | | |
| 13.5 200 320 TNT0515-F | 2.5 max 35±2 3.7±0.1 TNT0711-N | 3.5±0.3 3.5±0.3 3.5±0.3 3.5±0.3 3.5±0.3 3.5±0.3 3.5±0.3 3.5±0.3 3.5±0.3 3.5±0.3 TNT0709-J | 200±10 TNT0722-F | 50k10 46x1 RNT0710-1 | 2662 110s.10 13-05, 15 | | | | |
| 5 | 6 | 7 | 8 | 0 | 0 | | | | |
| | Fouriernmental | | | | | | | | |





Environmental protection for all types



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TDK NTC temperature sensors for various industrial applications



Important information: It is incumbent on the customer to check and decide whether a product is suitable for use in a particular application. Our products are described in detail in our data sheets. Our important notes and product specific Cautions and warnings must be observed. All relevant information is available through our sales offices.