

MT Series--NTC Thermistor for Medical Temperature Sensor

Making



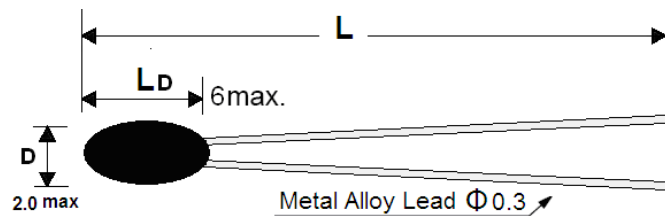
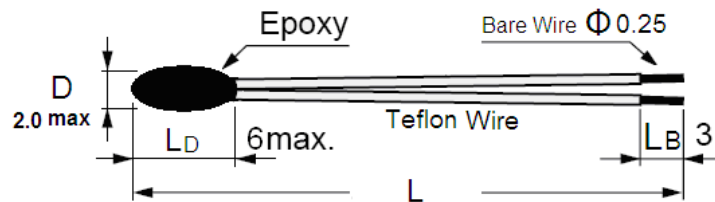
FEATURES

- Fast response: thermal time constant: 3.5S max in still air
- High stability
- Excellent thermal cycle endurance
- High accuracy: tolerance up to $\pm 0.02^{\circ}\text{C}$

APPLICATION

- For various kinds of medical temperature sensor making, e.g.: Skine/ Coelom / Body Temperature Sensor

DIMENSION



Unit: mm

Part Number Identification

MT 2K252 B 25C 3977A L25 T 0.3 D2.2

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| ① | ② | ③ | | ④ | ⑤ | | ⑥ | ⑦ | ⑧ | ⑨ |
|--------------------------|-----------------|-------------------------|--------------------------|------------|-----------------|-----------|----------------|----------------------------------|-----------------------|----------------|
| Product Series Code | Resistance @④°C | 20-45°C Temp. Tolerance | | Test Temp. | B Constance | | Lead Length | Lead Wire | Wire Φ | Detector |
| MT Medical Thermistor | 2K252: | A | $\pm 0.02^\circ\text{C}$ | 25C:25°C | 3977: B=3977 | | L25: L=25mm | T: Teflon B: Bare Metal | 0.3: $\Phi 0.3$ mm | D2.2: 2.2mm |
| | 2.252K Ω | B | $\pm 0.05^\circ\text{C}$ | | A | 25°C/50°C | | | | |
| | 10K00: | C | $\pm 0.1^\circ\text{C}$ | B | 25°C/85°C | | | | | |
| | 10.0K Ω | D | $\pm 0.2^\circ\text{C}$ | D | 0°C/50°C | | | | | |

Electronic Parameter Specification

| Part No. | $R_{25^\circ\text{C}}$ (K Ω) | $R_{37^\circ\text{C}}$ (K Ω) | B(K) | Rated Power @25°C (mW) | Dissipation Factor(δ) (mW/°C) | Thermal Time Constant (S) |
|------------------|---|---|------|---------------------------|---|---------------------------|
| MT1K000□25C3977B | 1.0 | 0.6016 | 3977 | ≤20 | 2 | ≤3.5 (depends on size) |
| MT2K252□25C3935A | 2.252 | 1.355 | 3935 | | | |
| MT6K000□25C3935A | 6.0 | 3.610 | 3935 | | | |
| MT10K00□25C3977B | 10.0 | 6.016 | 3977 | | | |
| MT10K00□25C3935A | 10.0 | 6.016 | 3935 | | | |
| MT10K00□25C3695B | 10.0 | 6.258 | 3695 | | | |
| MT20K00□25C4262B | 20.0 | 11.628 | 4262 | | | |
| MT30K00□25C3935A | 30.0 | 18.048 | 3935 | | | |

◆ Special part number could be custom designed.