

SURFACE MOUNT TYPE THERMISTOR

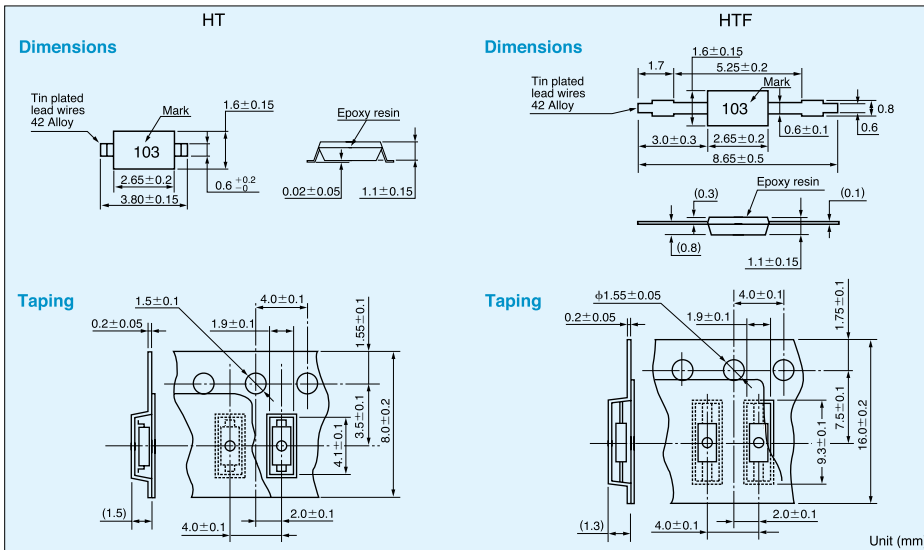
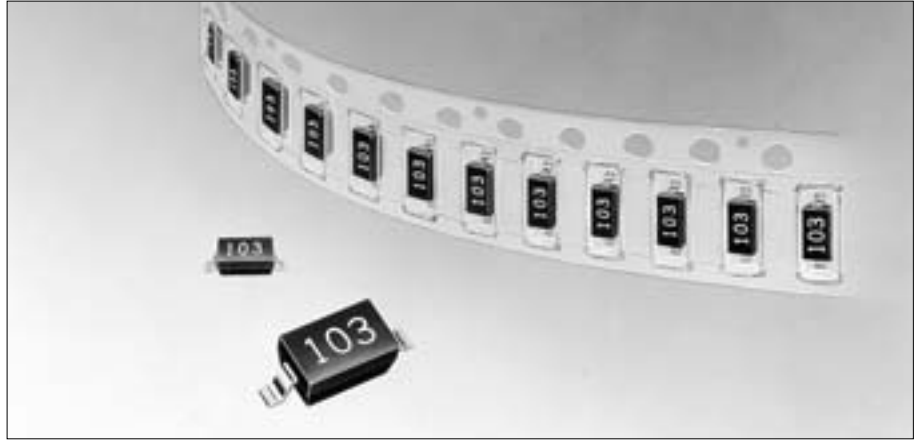
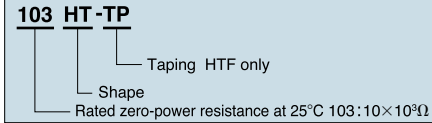
HT THERMISTOR

HT thermistors are entirely new type of thermistor for surface mounting (by reflow soldering) and were acquired from advanced technology.

Our HT thermistors are adapted metal electrodes packaged in a resin mold, unlike conventional chip thermistors, and can offer $\pm 2\%$ tolerance for a resistance value at 25°C.

HT series (SMD Thermistor) is not only compact-surface mounting type but also highly accurate and reliable.

Part number



Minimum quantity: 3000pcs/reel

Specifications

| Part No. | R ₂₅ *1 | B value*2 | Dissipation factor (mW/°C) Approx. | Thermal time constant(s)*3 | Rated maximum power dissipation (at 25°C)(mW) | Category temp. range(°C) |
|----------|--------------------|-----------|------------------------------------|----------------------------|---|--------------------------|
| 302HT(F) | 3.0kΩ±2% | 3860K±1% | 1.0 | 8.0 | 5.0 | -50~+125 |
| 502HT(F) | 5.0kΩ±2% | 3860K±1% | | | | -50~+100 |
| 103HT(F) | 10.0kΩ±2% | 3435K±1% | | | | -50~+100 |
| 203HT(F) | 20.0kΩ±2% | 3760K±1% | | | | -50~+125 |
| 303HT(F) | 30.0kΩ±2% | 3760K±1% | | | | -50~+125 |
| 503HT(F) | 50.0kΩ±2% | 4055K±1% | | | | -50~+125 |
| 104HT(F) | 100.0kΩ±2% | 4390K±1% | | | | -50~+125 |

*1 R₂₅: Rated zero-power resistance value at 25°C, ±1% and 3% are also available.

*2 B value: determined by rated zero-power resistance at 25°C and 85°C.

*3 Time when thermistor temperature reaches 63.2% of the temperature difference. The value is measured in the air.

Resistance-Temperature

| Temperature (°C) | Type | | | | | | | | Temperature (°C) | Type | | | | | | | |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|--------|--------|--------|-------|-------|-------|--|--|
| | 302HT | 502HT | 103HT | 203HT | 303HT | 503HT | 104HT | 302HT | | 502HT | 103HT | 203HT | 303HT | 503HT | 104HT | | |
| -50 | 182.1 | 303.4 | 367.7 | 1026 | 1539 | 3135 | 9584 | 50 | 1.109 | 1.849 | 4.147 | 7.632 | 11.45 | 17.93 | 32.51 | | |
| -40 | 93.35 | 155.6 | 204.7 | 540.5 | 810.8 | 1602 | 4572 | 60 | 0.7744 | 1.291 | 3.011 | 5.380 | 8.070 | 12.33 | 21.61 | | |
| -30 | 49.85 | 83.09 | 118.5 | 296.7 | 445.1 | 855.0 | 2282 | 70 | 0.5513 | 0.9189 | 2.224 | 3.861 | 5.792 | 8.588 | 14.66 | | |
| -20 | 27.75 | 46.25 | 71.02 | 169.2 | 253.8 | 474.4 | 1191 | 80 | 0.4000 | 0.6667 | 1.668 | 2.815 | 4.223 | 6.064 | 10.13 | | |
| -10 | 16.02 | 26.70 | 43.67 | 99.85 | 149.8 | 272.7 | 647.2 | 90 | 0.2951 | 0.4918 | 1.267 | 2.083 | 3.125 | 4.338 | 7.135 | | |
| 0 | 9.541 | 15.90 | 27.70 | 60.87 | 91.31 | 161.9 | 365.0 | 100 | 0.2210 | 0.3683 | 0.9753 | 1.564 | 2.346 | 3.142 | 5.111 | | |
| 10 | 5.876 | 9.793 | 18.07 | 38.21 | 57.32 | 99.13 | 212.5 | 110 | 0.1680 | 0.2800 | | 1.190 | 1.785 | 2.302 | 3.720 | | |
| 20 | 3.728 | 6.214 | 12.11 | 24.66 | 36.99 | 62.38 | 127.7 | 120 | 0.1295 | 0.2158 | | 0.9159 | 1.374 | 1.705 | 2.746 | | |
| 30 | 2.431 | 4.051 | 8.301 | 16.31 | 24.47 | 40.24 | 78.88 | 125 | 0.1142 | 0.1903 | | 0.8067 | 1.210 | 1.472 | 2.371 | | |
| 40 | 1.623 | 2.705 | 5.811 | 11.04 | 16.56 | 26.58 | 50.03 | | | | | | | | | | |

Unit (kΩ)