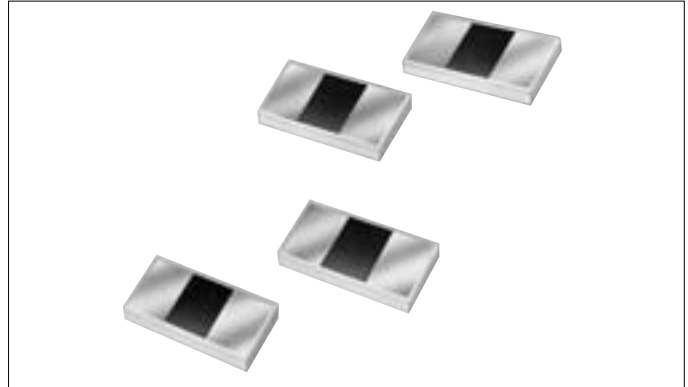


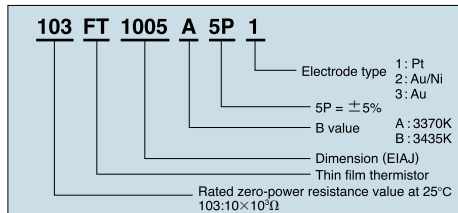
THIN FILM TYPE THERMISTOR

FT THERMISTOR

The FT thermistors, the highly reliable thermistors, are characterized by their fast response time, which was made possible by the miniaturization of the thermistor dimensions. FT thermistors are also heat-resistant type. FT thermistors are the most excellent products of today's chip thermistors manufacturing.



Part number



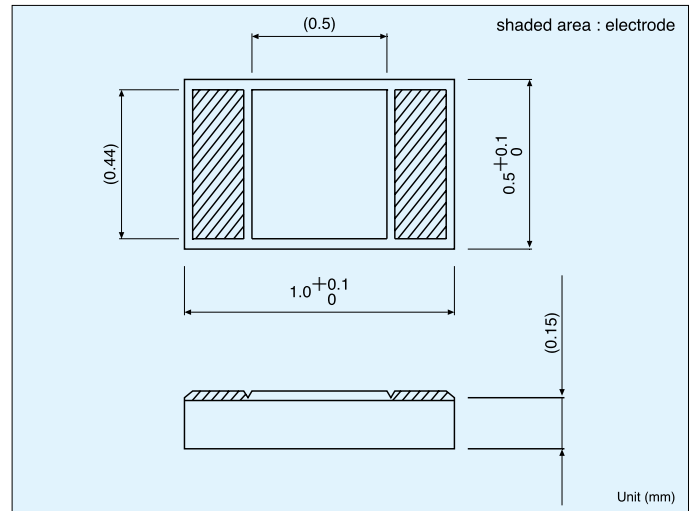
APPLICATION

OA sensor, Measuring instrument, Medical instrument, LCD, etc.

| | Electrode type | Connection method | Temperature range in use (°C) |
|---|----------------|-------------------|-------------------------------|
| 1 | Pt | Conductive resins | -40 ~ +350 |
| 2 | Au/Ni | Solder | -40 ~ +125 |
| 3 | Au | Wire-bonding | -40 ~ +250 |

We can also custom-make FT THERMISTOR to better suit your applications. Please consult our sales staff.

Dimensions



Specifications

| Part No. | R ₂₅ *1 | B value*2 | Dissipation factor (mW/°C) Approx. | Thermal time constant(s)*3 Approx. | Rated maximum power dissipation (at 25°C)(mW) |
|-----------|--------------------|------------|------------------------------------|------------------------------------|---|
| 103FT1005 | 10kΩ ± 5% | 3435K ± 1% | 0.3 | 2.0 | 1.5 |
| | | 3370K ± 1% | | | |
| 503FT1005 | 50kΩ ± 5% | 3435K ± 1% | | | |
| | | 3370K ± 1% | | | |
| 364FT1005 | 360kΩ ± 5% | 3370K ± 1% | | | |

*1 R₂₅: Rated zero-power resistance value at 25°C.

*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) | P/N | | | Temperature (°C) | P/N | | | |
|------------------|---------|---------|---------|------------------|---------|---------|---------|---------|
| | 103FT | | 503FT | | 103FT | | 503FT | 364FT |
| | B=3370K | B=3435K | B=3370K | B=3370K | B=3370K | B=3435K | B=3370K | B=3370K |
| -40 | 187.9 | 200.7 | 939.3 | 1002 | 6763 | | | |
| -30 | 110.7 | 117.0 | 553.4 | 584.7 | 3984 | | | |
| -20 | 67.26 | 70.34 | 336.3 | 351.9 | 2421 | | | |
| -10 | 42.10 | 43.55 | 210.5 | 217.7 | 1516 | | | 18.30 |
| 0 | 27.07 | 27.71 | 135.3 | 138.5 | 974.8 | | | 14.81 |
| 10 | 17.86 | 18.11 | 89.31 | 90.48 | 643.0 | | | 12.09 |
| 20 | 12.07 | 12.12 | 60.33 | 60.58 | 434.4 | | | 9.963 |
| 25 | 10.00 | 10.00 | 50.00 | 50.00 | 360.0 | | | 8.274 |
| 30 | 8.332 | 8.299 | 41.66 | 41.50 | 299.9 | | | 6.925 |
| 40 | 5.871 | 5.804 | 29.36 | 29.03 | 211.4 | | | 5.837 |
| 50 | 4.216 | 4.139 | 21.08 | 20.70 | 151.8 | | | 4.954 |
| 60 | 3.081 | 3.006 | 15.40 | 15.04 | 110.9 | | | 4.232 |
| 70 | 2.288 | 2.220 | 11.44 | 11.11 | 82.36 | | | 3.636 |
| 80 | 1.725 | 1.666 | 8.623 | 8.331 | 62.09 | | | 3.142 |
| 90 | 1.318 | 1.269 | 6.592 | 6.344 | 47.46 | | | 2.731 |
| 100 | 1.021 | 0.9797 | 5.105 | 4.898 | 36.76 | | | 2.385 |

Unit (kΩ)