

TEWA TEMPERATURE SENSORS

HIGH PRECISION NTC THERMISTORS AND TEMPERATURE SENSORS

Specification of Epoxy Coated NTC Thermistor

PART NUMBER: **TTS-30KC6-BZ**

No. of pages: 2

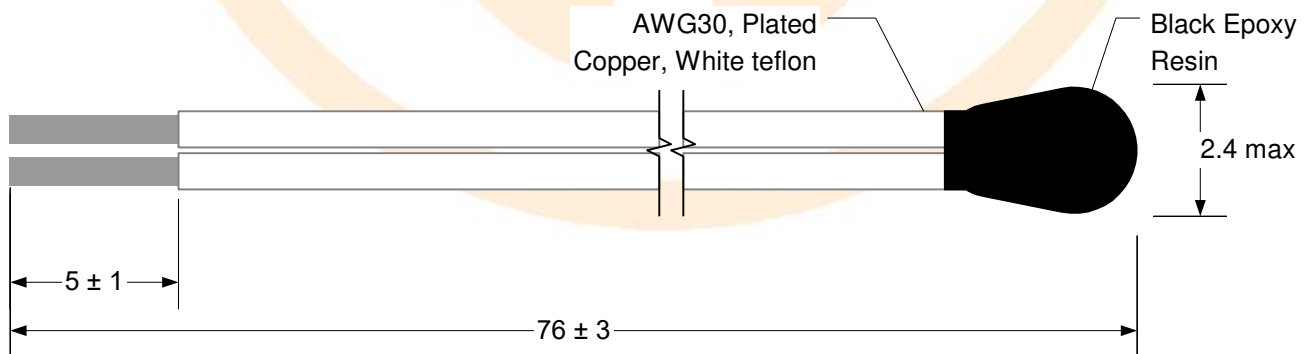
Date: **24.09.2015**

Revision: **00**

FEATURES:

| Sensing Element | Epoxy Coated NTC Thermistor |
|-------------------------------------------|-----------------------------|
| No-load resistance at 25°C | 30000 Ω |
| Tolerances from 0°C to 70°C | ± 0.2°C |
| Beta(25/85) Constant | 4260K ± 1% |
| Operating temperature range | -40°C ÷ 125°C |
| Response Time in well stirred liquid bath | ~1 sec. |
| Response Time in still air | ~10 sec. |
| Typical Dissipation Constant in still air | 0.75mW/°C |
| RoHS Compatible | YES |

DRAWING:



UNITS: [mm]

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PART NUMBER: **TTS-30KC6-BZ**

R/T CHARACTERISTIC:

| Resistance 30 000 Ohms at 25°C Tolerance $\pm 0.2^\circ\text{C}$ from 0°C to 70°C B(25/85) 4260 $\pm 1\%$ Material no. 6 | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--|-----------|----------------|
| Temp (°C) | R/R(25C) (Ohms) | | Temp (°C) | R Value (Ohms) |
| -40 | 40,672000 | | -40 | 1220160,0 |
| -35 | 28,909000 | | -35 | 867270,0 |
| -30 | 20,774000 | | -30 | 623220,0 |
| -25 | 15,085000 | | -25 | 452550,0 |
| -20 | 11,065000 | | -20 | 331950,0 |
| -15 | 8,193800 | | -15 | 245814,0 |
| -10 | 6,123700 | | -10 | 183711,0 |
| -5 | 4,616900 | | -5 | 138507,0 |
| 0 | 3,510200 | | 0 | 105306,0 |
| 5 | 2,690400 | | 5 | 80712,0 |
| 10 | 2,078100 | | 10 | 62343,0 |
| 15 | 1,617000 | | 15 | 48510,0 |
| 20 | 1,267300 | | 20 | 38019,0 |
| 25 | 1,000000 | | 25 | 30000,0 |
| 30 | 0,794280 | | 30 | 23828,4 |
| 35 | 0,634890 | | 35 | 19046,7 |
| 40 | 0,510580 | | 40 | 15317,4 |
| 45 | 0,413010 | | 45 | 12390,3 |
| 50 | 0,335980 | | 50 | 10079,4 |
| 55 | 0,274800 | | 55 | 8244,0 |
| 60 | 0,225930 | | 60 | 6777,9 |
| 65 | 0,186690 | | 65 | 5600,7 |
| 70 | 0,155020 | | 70 | 4650,6 |
| 75 | 0,129320 | | 75 | 3879,6 |
| 80 | 0,108370 | | 80 | 3251,1 |
| 85 | 0,091215 | | 85 | 2736,5 |
| 90 | 0,077097 | | 90 | 2312,9 |
| 95 | 0,065428 | | 95 | 1962,8 |
| 100 | 0,055744 | | 100 | 1672,3 |
| 105 | 0,047674 | | 105 | 1430,2 |
| 110 | 0,040921 | | 110 | 1227,6 |
| 115 | 0,035251 | | 115 | 1057,5 |
| 120 | 0,030469 | | 120 | 914,1 |
| 125 | 0,026424 | | 125 | 792,7 |
| 130 | 0,022990 | | 130 | 689,7 |
| 135 | 0,020064 | | 135 | 601,9 |
| 140 | 0,017563 | | 140 | 526,9 |
| 145 | 0,015419 | | 145 | 462,6 |
| 150 | 0,013575 | | 150 | 407,3 |