

SPECIFICATION
Of
NTC CHIP THERMISTORPART NUMBER: **TT3-5KC3-BG-CON**

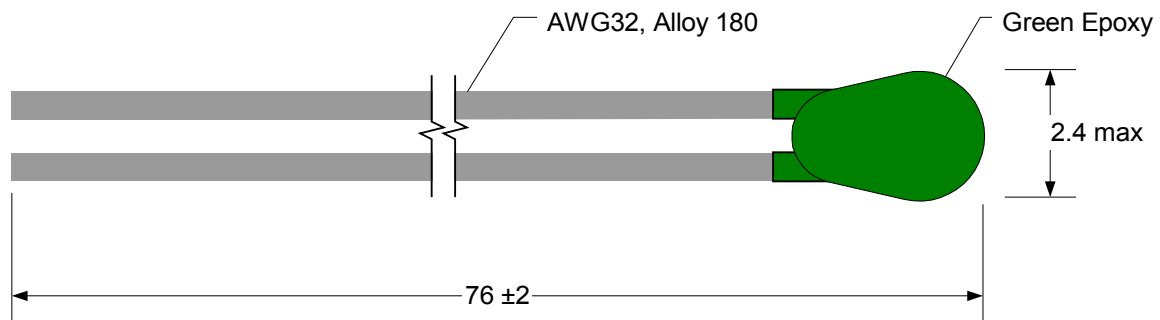
No. of pages: 2

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FEATURES:

| | |
|---|----------------------|
| No-load resistance at 25°C | 5 000 Ω |
| Temperature Coefficient [alpha] at 25°C | -4.39%/°C |
| Resistance tolerance from 0°C to 70°C | ± 0.2°C |
| Beta(25/85) Constant | 3 977 ± 0.3% |
| Operating temperature range | From - 40°C to 125°C |
| Maximum Exposure Temperature | 150°C |
| Response Time in well stirred liquid bath | ~1s |
| Response Time in still air | ~10s |
| Typical Dissipation Constant in still air | 0.75mW/°C |
| RoHS Compliant | YES |

DRAWING:



Units: [mm]

TEWA TERMICO LTD.

HIGH PRECISION NTC THERMISTORS AND TEMPERATURE SENSORS

PART NUMBER: **TT3-5KC3-BG-CON**

R/T CHARACTERISTIC:

| Resistance Tolerance B(25/85) Curve | | | | 5 000 ± 0.2°C 3977 3 | Ohms at 25°C from 0°C to 70°C ± 0.3% |
|--|--------------|-----------------|--------------|---|---|
| T (oC) | R min | R center | R max | | |
| -40 | 162243,00 | 167863,91 | 173484,81 | | |
| -35 | 117549,61 | 121115,50 | 124681,39 | | |
| -30 | 86103,72 | 88350,53 | 90597,34 | | |
| -25 | 63682,95 | 65127,57 | 66572,18 | | |
| -20 | 47571,74 | 48490,77 | 49409,79 | | |
| -15 | 35849,65 | 36449,86 | 37050,07 | | |
| -10 | 27262,81 | 27649,72 | 28036,62 | | |
| -5 | 20898,59 | 21157,73 | 21416,88 | | |
| 0 | 16153,93 | 16325,50 | 16497,07 | | |
| 5 | 12569,50 | 12697,76 | 12826,02 | | |
| 10 | 9855,38 | 9951,84 | 10048,31 | | |
| 15 | 7783,24 | 7857,00 | 7930,75 | | |
| 20 | 6190,01 | 6246,74 | 6303,48 | | |
| 25 | 4955,61 | 5000,00 | 5044,39 | | |
| 30 | 3993,44 | 4027,97 | 4062,50 | | |
| 35 | 3237,73 | 3265,05 | 3292,38 | | |
| 40 | 2640,67 | 2662,41 | 2684,15 | | |
| 45 | 2166,04 | 2183,42 | 2200,81 | | |
| 50 | 1786,67 | 1800,46 | 1814,24 | | |
| 55 | 1481,38 | 1492,51 | 1503,64 | | |
| 60 | 1234,50 | 1243,52 | 1252,54 | | |
| 65 | 1033,80 | 1041,14 | 1048,48 | | |
| 70 | 869,80 | 875,80 | 881,80 | | |
| 75 | 734,46 | 740,06 | 745,65 | | |
| 80 | 622,95 | 628,08 | 633,21 | | |
| 85 | 530,54 | 535,29 | 540,04 | | |
| 90 | 453,66 | 458,06 | 462,45 | | |
| 95 | 389,57 | 393,50 | 397,43 | | |
| 100 | 335,82 | 339,32 | 342,81 | | |
| 105 | 290,48 | 293,66 | 296,83 | | |
| 110 | 252,17 | 255,04 | 257,90 | | |
| 115 | 219,36 | 222,24 | 225,13 | | |
| 120 | 191,44 | 194,30 | 197,16 | | |
| 125 | 167,85 | 170,41 | 172,97 | | |
| 130 | 147,62 | 149,92 | 152,22 | | |
| 135 | 129,96 | 132,28 | 134,59 | | |
| 140 | 114,74 | 117,05 | 119,35 | | |
| 145 | 101,67 | 103,86 | 106,04 | | |
| 150 | 90,33 | 92,40 | 94,47 | | |