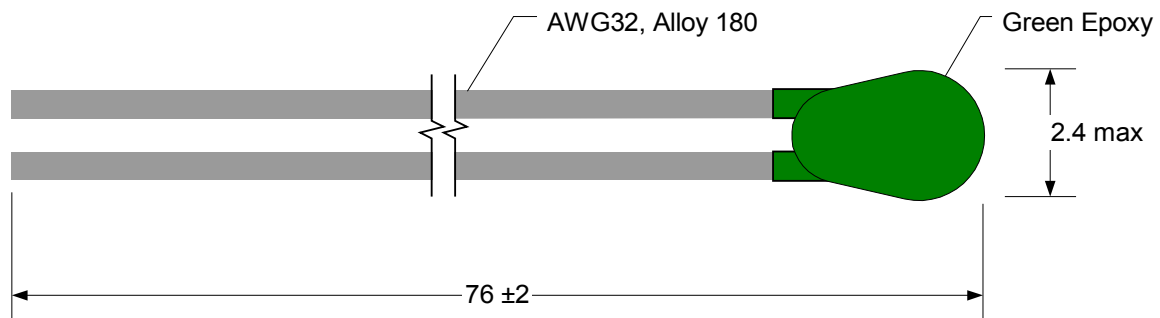


SPECIFICATION  
Of  
NTC CHIP THERMISTORPART NUMBER: **TT3-100KC6-BG-CON**

No. of pages: 2

Date: **26.08.2015**Revision: **00**FEATURES:

|   |                      |
|---|----------------------|
| No-load resistance at 25°C                | 100 000 Ω            |
| Temperature Coefficient [alpha] at 25°C   | -4.68%/°C            |
| Resistance tolerance from 0°C to 70°C     | ± 0.2°C              |
| Beta(25/85) Constant                      | 4 260 ± 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            |
| <b>RoHS Compliant</b>                     | <b>YES</b>           |

DRAWING:

Units: [mm]

# TEWA TERMICO LTD.

HIGH PRECISION NTC THERMISTORS AND TEMPERATURE SENSORS

PART NUMBER: **TT3-100KC6-BG-CON**

R/T CHARACTERISTIC:

| <b>Resistance</b> |              |                 |                         |
|-------------------|--------------|-----------------|-------------------------|
| <b>Tolerance</b>  |              |                 |                         |
| <b>B(25/85)</b>   |              |                 |                         |
| <b>Curve</b>      |              |                 |                         |
|                   |              | <b>100 000</b>  | <b>Ohms at 25°C</b>     |
|                   |              | <b>± 0.2°C</b>  | <b>from 0°C to 70°C</b> |
|                   |              | <b>4260</b>     | <b>± 0.3%</b>           |
|                   |              | <b>6</b>        |                         |
| <b>T (oC)</b>     | <b>R min</b> | <b>R center</b> | <b>R max</b>            |
| -40               | 3930073,77   | 4071185,74      | 4212297,71              |
| -35               | 2804379,61   | 2892929,55      | 2981479,49              |
| -30               | 2023403,68   | 2078447,76      | 2133491,85              |
| -25               | 1474013,76   | 1509065,21      | 1544116,66              |
| -20               | 1084717,03   | 1106727,41      | 1128737,80              |
| -15               | 805320,36    | 819492,66       | 833664,97               |
| -10               | 603459,49    | 612407,00       | 621354,50               |
| -5                | 455803,22    | 461694,81       | 467586,40               |
| 0                 | 347184,63    | 351017,00       | 354849,37               |
| 5                 | 266179,03    | 269033,86       | 271888,69               |
| 10                | 205659,22    | 207800,63       | 209942,04               |
| 15                | 160083,55    | 161700,39       | 163317,23               |
| 20                | 125498,81    | 126727,19       | 127955,56               |
| 25                | 99051,08     | 100000,00       | 100948,92               |
| 30                | 78700,60     | 79430,05        | 80159,50                |
| 35                | 62921,03     | 63491,18        | 64061,32                |
| 40                | 50616,99     | 51059,91        | 51502,84                |
| 45                | 40953,40     | 41303,29        | 41653,18                |
| 50                | 33321,61     | 33599,41        | 33877,20                |
| 55                | 27259,22     | 27480,84        | 27702,46                |
| 60                | 22418,68     | 22594,01        | 22769,33                |
| 65                | 18526,78     | 18669,76        | 18812,74                |
| 70                | 15386,43     | 15502,00        | 15617,57                |
| 75                | 12826,38     | 12931,98        | 13037,59                |
| 80                | 10741,64     | 10836,75        | 10931,86                |
| 85                | 9033,07      | 9120,55         | 9208,02                 |
| 90                | 7628,20      | 7708,42         | 7788,64                 |
| 95                | 6470,64      | 6541,39         | 6612,14                 |
| 100               | 5510,26      | 5572,81         | 5635,36                 |
| 105               | 4709,23      | 4765,64         | 4822,06                 |
| 110               | 4039,80      | 4090,31         | 4140,83                 |
| 115               | 3472,73      | 3523,12         | 3573,50                 |
| 120               | 2995,46      | 3044,97         | 3094,48                 |
| 125               | 2594,49      | 2640,43         | 2686,37                 |
| 130               | 2254,40      | 2296,98         | 2339,56                 |
| 135               | 1963,29      | 2004,41         | 2045,52                 |
| 140               | 1715,08      | 1754,36         | 1793,64                 |
| 145               | 1503,24      | 1539,98         | 1576,71                 |
| 150               | 1321,27      | 1355,61         | 1389,94                 |