

TEWA TEMPERATURE SENSORS

HIGH PRECISION NTC THERMISTORS AND TEMPERATURE SENSORS

Specification of Epoxy Coated NTC Thermistor

PART NUMBER: **TTS-10KC4-BG**

No. of pages: 2

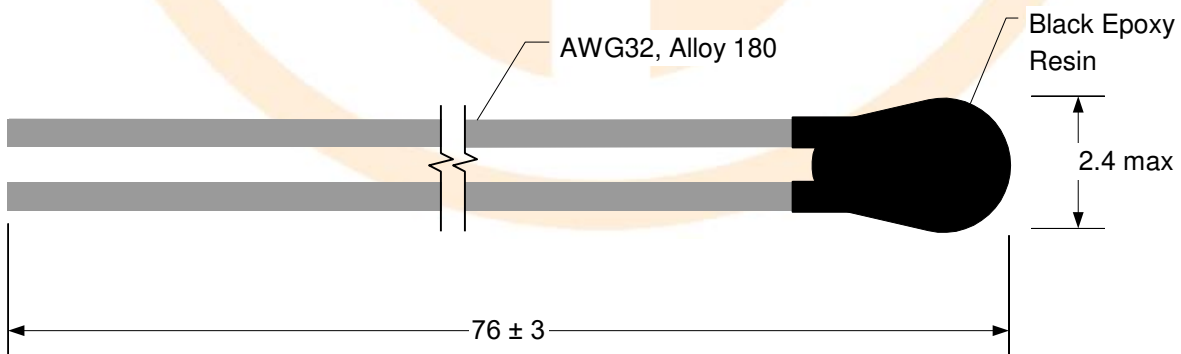
Date: **24.09.2015**

Revision: **00**

FEATURES:

Sensing Element	Epoxy Coated NTC Thermistor
No-load resistance at 25°C	10000 Ω
Tolerances from 0°C to 70°C	± 0.2°C
Beta(25/85) Constant	3691K ± 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-10KC4-BG**

R/T CHARACTERISTIC:

Resistance 10 000 Ohms at 25°C				
Tolerance $\pm 0.2^\circ\text{C}$ from 0°C to 70°C				
B(25/85) 3691 $\pm 1\%$				
Material no. 4				
Temp (°C)	R/R(25C) (Ohms)		Temp (°C)	R Value (Ohms)
-40	23,983000		-40	239830
-35	17,928000		-35	179280
-30	13,523000		-30	135230
-25	10,289000		-25	102890
-20	7,893000		-20	78930
-15	6,103000		-15	61030
-10	4,754900		-10	47549
-5	3,731600		-5	37316
0	2,949000		0	29490
5	2,346200		5	23462
10	1,878700		10	18787
15	1,513600		15	15136
20	1,226800		20	12268
25	1,000000		25	10000
30	0,819660		30	8196,6
35	0,675390		35	6753,9
40	0,559370		40	5593,7
45	0,465570		45	4655,7
50	0,389330		50	3893,3
55	0,327070		55	3270,7
60	0,275990		60	2759,9
65	0,233870		65	2338,7
70	0,199000		70	1990
75	0,170000		75	1700
80	0,145790		80	1457,9
85	0,125483		85	1254,83
90	0,108395		90	1083,95
95	0,093960		95	939,6
100	0,081719		100	817,19
105	0,071303		105	713,03
110	0,062409		110	624,09
115	0,054792		115	547,92
120	0,048246		120	482,46
125	0,042603		125	426,03
130	0,037723		130	377,23
135	0,033492		135	334,92
140	0,029812		140	298,12
145	0,026604		145	266,04
150	0,023798		150	237,98