

# TEWA TEMPERATURE SENSORS

HIGH PRECISION NTC THERMISTORS AND TEMPERATURE SENSORS

## Specification of Epoxy Coated NTC Thermistor

PART NUMBER: **TTS-1KC3-BG**

No. of pages: 2

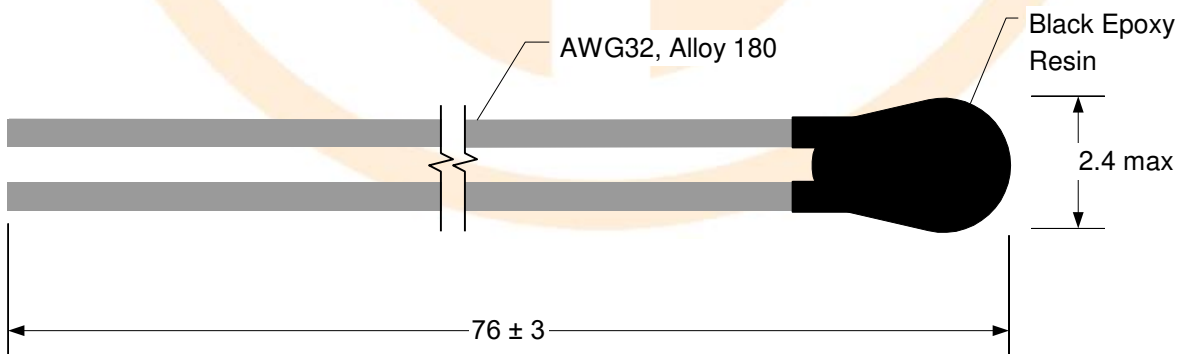
Date: **24.09.2015**

Revision: **00**

### FEATURES:

Sensing Element	Epoxy Coated NTC Thermistor
No-load resistance at 25°C	1000 Ω
Tolerances from 0°C to 70°C	± 0.2°C
Beta(25/85) Constant	3977K ± 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
<b>RoHS Compatible</b>	<b>YES</b>

### DRAWING:



UNITS: [mm]

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PART NUMBER: **TTS-1KC3-BG**

R/T CHARACTERISTIC:

Resistance <b>1 000</b> Ohms at 25°C				
Tolerance <b>0.2°C</b> From 0°C to 70°C				
B(25/85) <b>3977</b> ± 1%				
Material no. <b>3</b>				
Temp (°C)	R/R(25C) (Ohms)		Temp (°C)	R Value (Ohms)
-40	33,566800		-40	33566,8
-35	24,219300		-35	24219,3
-30	17,668200		-30	17668,2
-25	13,024200		-25	13024,2
-20	9,697300		-20	9697,3
-15	7,289400		-15	7289,4
-10	5,529700		-10	5529,7
-5	4,231400		-5	4231,4
0	3,265100		0	3265,1
5	2,539500		5	2539,5
10	1,990300		10	1990,3
15	1,571400		15	1571,4
20	1,249400		20	1249,4
25	1,000000		25	<b>1000</b>
30	0,805600		30	805,6
35	0,653010		35	653,01
40	0,532490		40	532,49
45	0,436690		45	436,69
50	0,360100		50	360,1
55	0,298510		55	298,51
60	0,248710		60	248,71
65	0,208230		65	208,23
70	0,175160		70	175,16
75	0,148010		75	148,01
80	0,125620		80	125,62
85	0,107060		85	107,06
90	0,091610		90	91,61
95	0,078698		95	78,7
100	0,067863		100	67,86
105	0,058730		105	58,73
110	0,051006		110	51,01
115	0,044448		115	44,45
120	0,038859		120	38,86
125	0,034082		125	34,08
130	0,029982		130	29,98
135	0,026454		135	26,45
140	0,023408		140	23,41
145	0,020770		145	20,77
150	0,018478		150	18,48