

# TEWA TEMPERATURE SENSORS

HIGH PRECISION NTC THERMISTORS AND TEMPERATURE SENSORS

## Specification of Epoxy Coated NTC Thermistor

PART NUMBER: **TTS-2KC3-BG**

No. of pages: 2

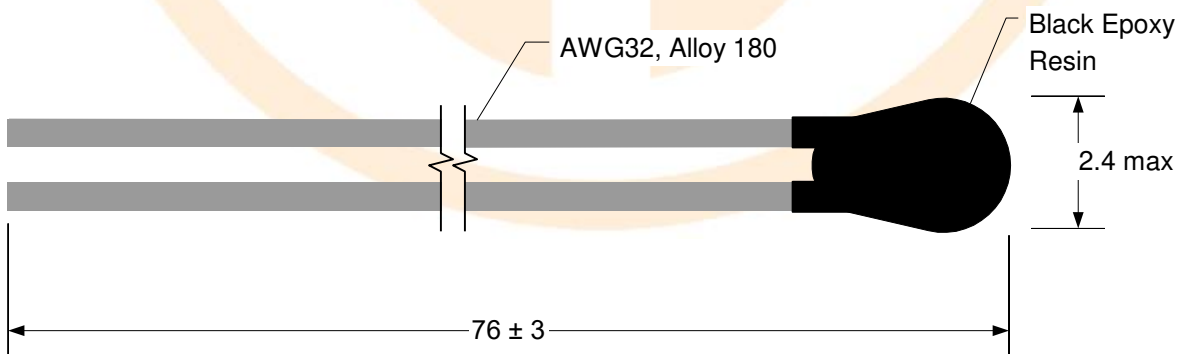
Date: **24.09.2015**

Revision: **00**

**FEATURES:**

Sensing Element	Epoxy Coated NTC Thermistor
No-load resistance at 25°C	2000 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-2KC3-BG**

R/T CHARACTERISTIC:

Resistance <b>2 000</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	67133,6
-35	24,219300		-35	48438,6
-30	17,668200		-30	35336,4
-25	13,024200		-25	26048,4
-20	9,697300		-20	19394,6
-15	7,289400		-15	14578,8
-10	5,529700		-10	11059,4
-5	4,231400		-5	8462,8
0	3,265100		0	6530,2
5	2,539500		5	5079
10	1,990300		10	3980,6
15	1,571400		15	3142,8
20	1,249400		20	2498,8
25	1,000000		25	<b>2000</b>
30	0,805600		30	1611,2
35	0,653010		35	1306,02
40	0,532490		40	1064,98
45	0,436690		45	873,38
50	0,360100		50	720,2
55	0,298510		55	597,02
60	0,248710		60	497,42
65	0,208230		65	416,46
70	0,175160		70	350,32
75	0,148010		75	296,02
80	0,125620		80	251,24
85	0,107060		85	214,12
90	0,091610		90	183,22
95	0,078698		95	157,4
100	0,067863		100	135,73
105	0,058730		105	117,46
110	0,051006		110	102,01
115	0,044448		115	88,9
120	0,038859		120	77,72
125	0,034082		125	68,16
130	0,029982		130	59,96
135	0,026454		135	52,91
140	0,023408		140	46,82
145	0,020770		145	41,54
150	0,018478		150	36,96