

# TEWA TEMPERATURE SENSORS

HIGH PRECISION NTC THERMISTORS AND TEMPERATURE SENSORS

## Specification of Epoxy Coated NTC Thermistor

PART NUMBER: **TTS-5KC3-BG**

No. of pages: 2

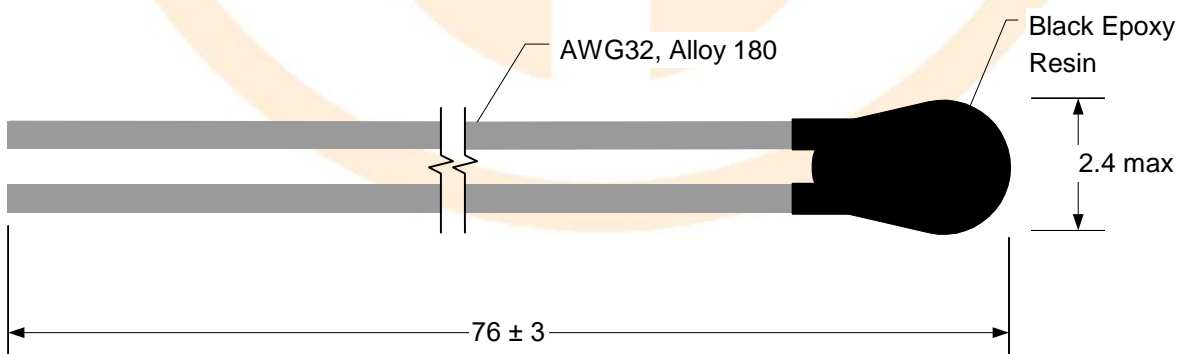
Date: **24.09.2015**

Revision: **00**

### FEATURES:

Sensing Element	Epoxy Coated NTC Thermistor
No-load resistance at 25°C	5000 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-5KC3-BG**

R/T CHARACTERISTIC:

Resistance <b>5 000</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	167834
-35	24,219300		-35	121096,5
-30	17,668200		-30	88341
-25	13,024200		-25	65121
-20	9,697300		-20	48486,5
-15	7,289400		-15	36447
-10	5,529700		-10	27648,5
-5	4,231400		-5	21157
0	3,265100		0	16325,5
5	2,539500		5	12697,5
10	1,990300		10	9951,5
15	1,571400		15	7857
20	1,249400		20	6247
25	1,000000		25	<b>5000</b>
30	0,805600		30	4028
35	0,653010		35	3265,05
40	0,532490		40	2662,45
45	0,436690		45	2183,45
50	0,360100		50	1800,5
55	0,298510		55	1492,55
60	0,248710		60	1243,55
65	0,208230		65	1041,15
70	0,175160		70	875,8
75	0,148010		75	740,05
80	0,125620		80	628,1
85	0,107060		85	535,3
90	0,091610		90	458,05
95	0,078698		95	393,49
100	0,067863		100	339,32
105	0,058730		105	293,65
110	0,051006		110	255,03
115	0,044448		115	222,24
120	0,038859		120	194,3
125	0,034082		125	170,41
130	0,029982		130	149,91
135	0,026454		135	132,27
140	0,023408		140	117,04
145	0,020770		145	103,85
150	0,018478		150	92,39