

# TEWA TEMPERATURE SENSORS

HIGH PRECISION NTC THERMISTORS AND TEMPERATURE SENSORS

## Specification of Epoxy Coated NTC Thermistor

PART NUMBER: **TTS-50KC6-BG**

No. of pages: 2

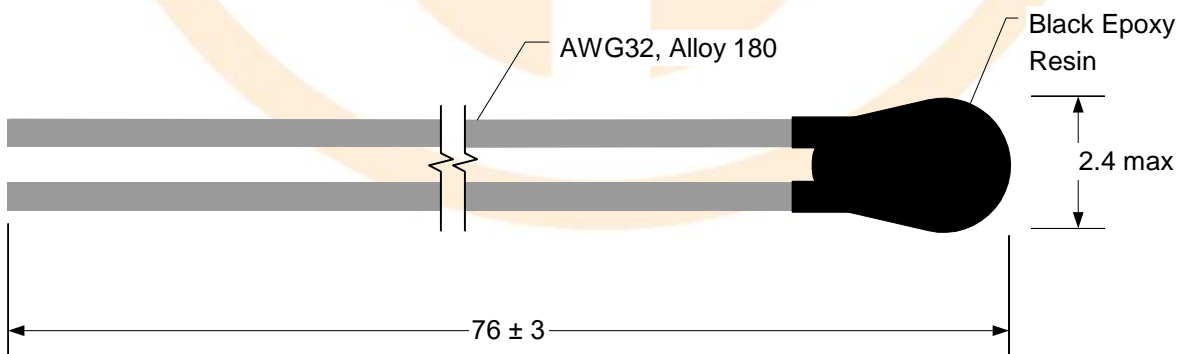
Date: **24.09.2015**

Revision: **00**

### FEATURES:

Sensing Element	Epoxy Coated NTC Thermistor
No-load resistance at 25°C	50000 Ω
Tolerances from 0°C to 70°C	± 0.2°C
Beta(25/85) Constant	4260K ± 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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R/T CHARACTERISTIC:

Resistance <b>50 000</b> Ohms at 25°C Tolerance $\pm 0.2^\circ\text{C}$ from 0°C to 70°C B(25/85) <b>4260</b> $\pm 1\%$ Material no. <b>6</b>				
Temp (°C)	R/R(25C) (Ohms)		Temp (°C)	R Value (Ohms)
-40	40,672000		-40	2033600,0
-35	28,909000		-35	1445450,0
-30	20,774000		-30	1038700,0
-25	15,085000		-25	754250,0
-20	11,065000		-20	553250,0
-15	8,193800		-15	409690,0
-10	6,123700		-10	306185,0
-5	4,616900		-5	230845,0
0	3,510200		0	175510,0
5	2,690400		5	134520,0
10	2,078100		10	103905,0
15	1,617000		15	80850,0
20	1,267300		20	63365,0
25	1,000000		25	50000,0
30	0,794280		30	39714,0
35	0,634890		35	31744,5
40	0,510580		40	25529,0
45	0,413010		45	20650,5
50	0,335980		50	16799,0
55	0,274800		55	13740,0
60	0,225930		60	11296,5
65	0,186690		65	9334,5
70	0,155020		70	7751,0
75	0,129320		75	6466,0
80	0,108370		80	5418,5
85	0,091215		85	4560,8
90	0,077097		90	3854,9
95	0,065428		95	3271,4
100	0,055744		100	2787,2
105	0,047674		105	2383,7
110	0,040921		110	2046,1
115	0,035251		115	1762,6
120	0,030469		120	1523,5
125	0,026424		125	1321,2
130	0,022990		130	1149,5
135	0,020064		135	1003,2
140	0,017563		140	878,2
145	0,015419		145	771,0
150	0,013575		150	678,8