

# TEWA TEMPERATURE SENSORS

HIGH PRECISION NTC THERMISTORS AND TEMPERATURE SENSORS

## Specification of Epoxy Coated NTC Thermistor

PART NUMBER: **TTS-1.8KC7-BZ**

No. of pages: 2

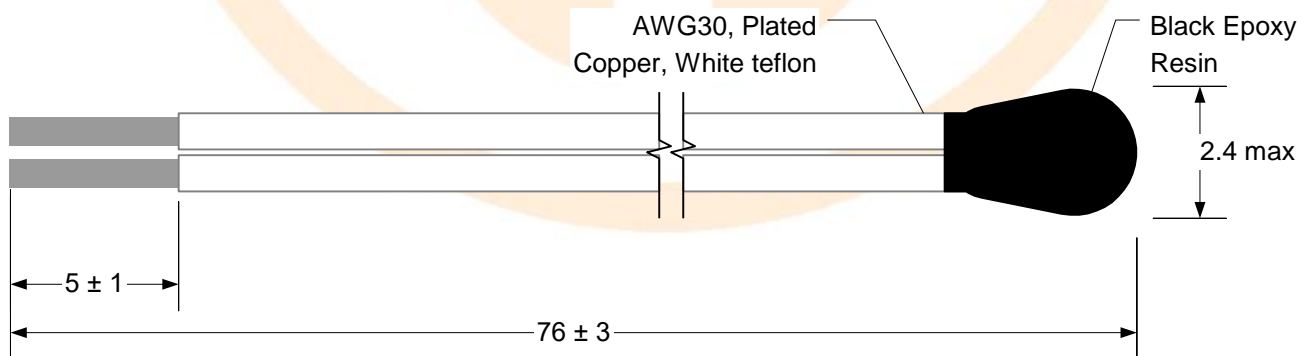
Date: **24.09.2015**

Revision: **00**

FEATURES:

Sensing Element	Epoxy Coated NTC Thermistor
No-load resistance at 25°C	1800 Ω
Tolerances from 0°C to 70°C	± 0.2°C
Beta(25/85) Constant	3500K ± 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>1 800</b> Ohms at 25°C Tolerance $\pm 0.2^\circ\text{C}$ From 0°C to 70°C B(25/85) <b>3500</b> $\pm 1\%$ Material no. <b>7</b>				
Temp (°C)	R/R(25C) (Ohms)		Temp (°C)	R Value (Ohms)
-40	21,6800		-40	39024
-35	16,3100		-35	29358
-30	12,3800		-30	22284
-25	9,4850		-25	17073
-20	7,3290		-20	13192,2
-15	5,7090		-15	10276,2
-10	4,4820		-10	8067,6
-5	3,5460		-5	6382,8
0	2,8250		0	5085
5	2,2660		5	4078,8
10	1,8300		10	3294
15	1,4870		15	2676,6
20	1,2160		20	2188,8
25	1,0000		25	<b>1800</b>
30	0,8270		30	1488,6
35	0,6876		35	1237,68
40	0,5747		40	1034,46
45	0,4827		45	868,86
50	0,4074		50	733,32
55	0,3454		55	621,72
60	0,2941		60	529,38
65	0,2515		65	452,7
70	0,2160		70	388,8
75	0,1862		75	335,16
80	0,1612		80	290,16
85	0,1400		85	252
90	0,1220		90	219,6
95	0,1067		95	192,06
100	0,0937		100	168,66
105	0,0825		105	148,5
110	0,0728		110	131,04
115	0,0645		115	116,1
120	0,0573		120	103,14
125	0,0510		125	91,8
130	0,0456		130	82,1
135	0,0408		135	73,4
140	0,0366		140	65,9
145	0,0330		145	59,4
150	0,0298		150	53,6