

TEWA TEMPERATURE SENSORS

HIGH PRECISION NTC THERMISTORS AND TEMPERATURE SENSORS

Specification of Epoxy Coated NTC Thermistor

PART NUMBER: **TTS-10KC3-BZ**

No. of pages: 2

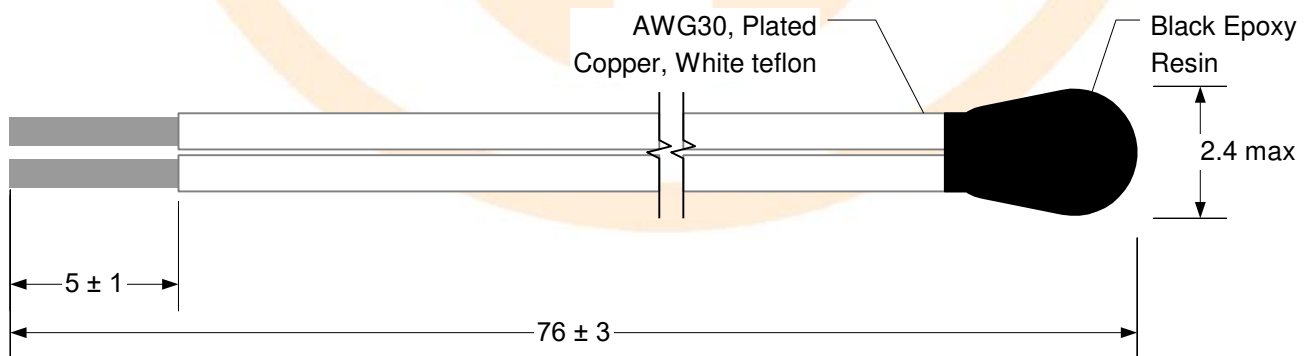
Date: **24.09.2015**

Revision: **00**

FEATURES:

Sensing Element	Epoxy Coated NTC Thermistor
No-load resistance at 25°C	10000 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
RoHS Compatible	YES

DRAWING:



UNITS: [mm]

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R/T CHARACTERISTIC:

Resistance 10 000 Ohms at 25°C				
Tolerance 0.2°C From 0°C to 70°C				
B(25/85) 3977 ± 1%				
Material no. 3				
Temp (°C)	R/R(25C) (Ohms)		Temp (°C)	R Value (Ohms)
-40	33,566800		-40	335668
-35	24,219300		-35	242193
-30	17,668200		-30	176682
-25	13,024200		-25	130242
-20	9,697300		-20	96973
-15	7,289400		-15	72894
-10	5,529700		-10	55297
-5	4,231400		-5	42314
0	3,265100		0	32651
5	2,539500		5	25395
10	1,990300		10	19903
15	1,571400		15	15714
20	1,249400		20	12494
25	1,000000		25	10000
30	0,805600		30	8056
35	0,653010		35	6530,1
40	0,532490		40	5324,9
45	0,436690		45	4366,9
50	0,360100		50	3601
55	0,298510		55	2985,1
60	0,248710		60	2487,1
65	0,208230		65	2082,3
70	0,175160		70	1751,6
75	0,148010		75	1480,1
80	0,125620		80	1256,2
85	0,107060		85	1070,6
90	0,091610		90	916,1
95	0,078698		95	786,98
100	0,067863		100	678,63
105	0,058730		105	587,3
110	0,051006		110	510,06
115	0,044448		115	444,48
120	0,038859		120	388,59
125	0,034082		125	340,82
130	0,029982		130	299,82
135	0,026454		135	264,54
140	0,023408		140	234,08
145	0,020770		145	207,7
150	0,018478		150	184,78