

TEWA TEMPERATURE SENSORS

HIGH PRECISION NTC THERMISTORS AND TEMPERATURE SENSORS

Specification of Epoxy Coated NTC Thermistor

PART NUMBER: **TTS-3KC3-BZ**

No. of pages: 2

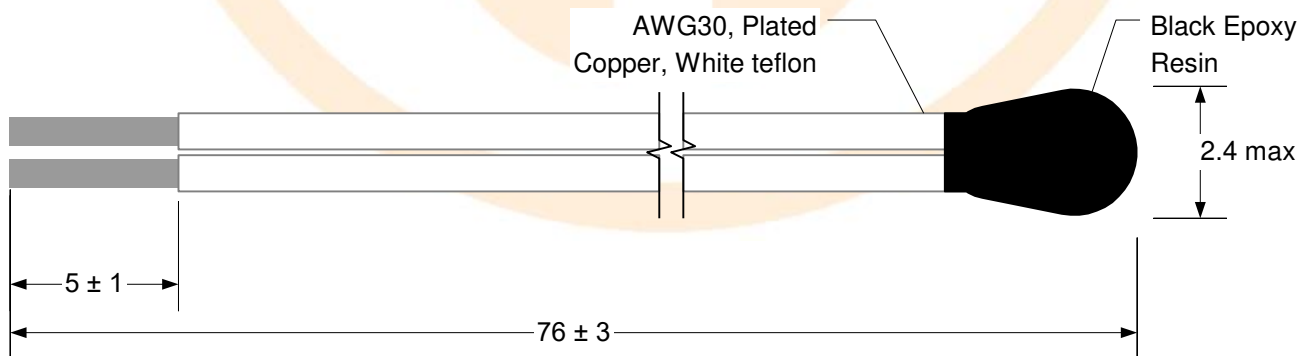
Date: **24.09.2015**

Revision: **00**

FEATURES:

Sensing Element	Epoxy Coated NTC Thermistor
No-load resistance at 25°C	3000 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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PART NUMBER: **TTS-3KC3-BZ**

R/T CHARACTERISTIC:

Resistance 3 000 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	100700,4
-35	24,219300		-35	72657,9
-30	17,668200		-30	53004,6
-25	13,024200		-25	39072,6
-20	9,697300		-20	29091,9
-15	7,289400		-15	21868,2
-10	5,529700		-10	16589,1
-5	4,231400		-5	12694,2
0	3,265100		0	9795,3
5	2,539500		5	7618,5
10	1,990300		10	5970,9
15	1,571400		15	4714,2
20	1,249400		20	3748,2
25	1,000000		25	3000
30	0,805600		30	2416,8
35	0,653010		35	1959,03
40	0,532490		40	1597,47
45	0,436690		45	1310,07
50	0,360100		50	1080,3
55	0,298510		55	895,53
60	0,248710		60	746,13
65	0,208230		65	624,69
70	0,175160		70	525,48
75	0,148010		75	444,03
80	0,125620		80	376,86
85	0,107060		85	321,18
90	0,091610		90	274,83
95	0,078698		95	236,09
100	0,067863		100	203,59
105	0,058730		105	176,19
110	0,051006		110	153,02
115	0,044448		115	133,34
120	0,038859		120	116,58
125	0,034082		125	102,25
130	0,029982		130	89,95
135	0,026454		135	79,36
140	0,023408		140	70,22
145	0,020770		145	62,31
150	0,018478		150	55,43