

TEWA TEMPERATURE SENSORS

HIGH PRECISION NTC THERMISTORS AND TEMPERATURE SENSORS

Specification of Epoxy Coated NTC Thermistor

PART NUMBER: **TTS-30KC5-BG**

No. of pages: 2

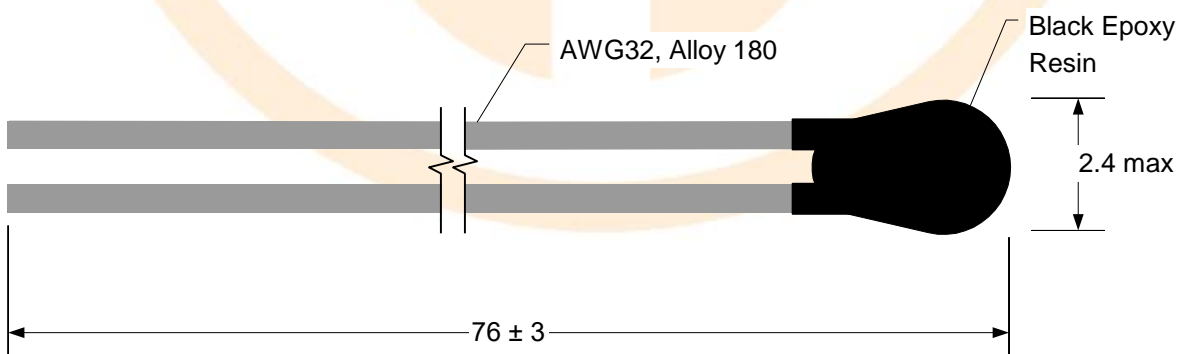
Date: **24.09.2015**

Revision: **00**

FEATURES:

Sensing Element	Epoxy Coated NTC Thermistor
No-load resistance at 25°C	30000 Ω
Tolerances from 0°C to 70°C	± 0.2°C
Beta(25/85) Constant	3942K ± 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:



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R/T CHARACTERISTIC:

Resistance 30 000 Ohms at 25°C				
Tolerance $\pm 0.2^\circ\text{C}$ from 0°C to 70°C				
B(25/85) 3942K $\pm 1\%$				
Material no. 5				
Temp (°C)	R/R(25C)		Temp (°C)	R Value (Ohms)
-40	29,47000		-40	884100,0
-35	21,63000		-35	648900,0
-30	16,02000		-30	480600,0
-25	11,98000		-25	359400,0
-20	9,03200		-20	270960,0
-15	6,86900		-15	206070,0
-10	5,22600		-10	156780,0
-5	4,06800		-5	122040,0
0	3,16600		0	94980,0
5	2,48100		5	74430,0
10	1,95800		10	58740,0
15	1,55600		15	46680,0
20	1,24300		20	37290,0
25	1,00000		25	30000,0
30	0,80890		30	24267,0
35	0,65800		35	19740,0
40	0,53820		40	16146,0
45	0,44250		45	13275,0
50	0,36560		50	10968,0
55	0,30360		55	9108,0
60	0,25320		60	7596,0
65	0,21220		65	6366,0
70	0,17860		70	5358,0
75	0,15090		75	4527,0
80	0,12810		80	3843,0
85	0,10910		85	3273,0
90	0,09333		90	2799,9
95	0,08011		95	2403,3
100	0,06900		100	2070,0
105	0,05964		105	1789,2
110	0,05173		110	1551,9
115	0,04500		115	1350,0
120	0,03928		120	1178,4
125	0,03438		125	1031,4
130	0,030190		130	905,7
135	0,026580		135	797,4
140	0,023460		140	703,8
145	0,020770		145	623,1
150	0,018430		150	552,9