

TEWA TEMPERATURE SENSORS

HIGH PRECISION NTC THERMISTORS AND TEMPERATURE SENSORS

Specification of Epoxy Coated NTC Thermistor

PART NUMBER: **TTS-100KC6-BG**

No. of pages: 2

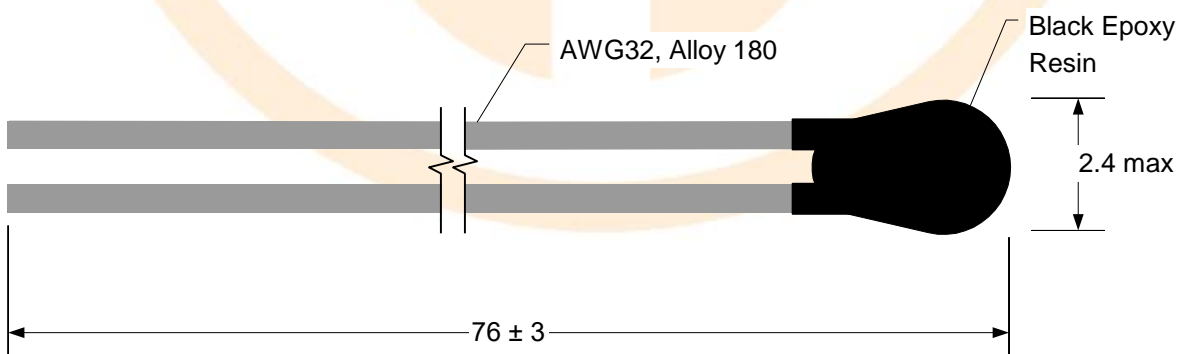
Date: **24.09.2015**

Revision: **00**

FEATURES:

Sensing Element	Epoxy Coated NTC Thermistor
No-load resistance at 25°C	100 000 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
RoHS Compatible	YES

DRAWING:



UNITS: [mm]

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R/T CHARACTERISTIC:

Resistance 100 000 Ohms at 25°C Tolerance $\pm 0.2^\circ\text{C}$ from 0°C to 70°C B(25/85) 4260 $\pm 1\%$ Material no. 6				
Temp (°C)	R/R(25C) (Ohms)		Temp (°C)	R Value (Ohms)
-40	40,672000		-40	4067200,0
-35	28,909000		-35	2890900,0
-30	20,774000		-30	2077400,0
-25	15,085000		-25	1508500,0
-20	11,065000		-20	1106500,0
-15	8,193800		-15	819380,0
-10	6,123700		-10	612370,0
-5	4,616900		-5	461690,0
0	3,510200		0	351020,0
5	2,690400		5	269040,0
10	2,078100		10	207810,0
15	1,617000		15	161700,0
20	1,267300		20	126730,0
25	1,000000		25	100000,0
30	0,794280		30	79428,0
35	0,634890		35	63489,0
40	0,510580		40	51058,0
45	0,413010		45	41301,0
50	0,335980		50	33598,0
55	0,274800		55	27480,0
60	0,225930		60	22593,0
65	0,186690		65	18669,0
70	0,155020		70	15502,0
75	0,129320		75	12932,0
80	0,108370		80	10837,0
85	0,091215		85	9121,5
90	0,077097		90	7709,7
95	0,065428		95	6542,8
100	0,055744		100	5574,4
105	0,047674		105	4767,4
110	0,040921		110	4092,1
115	0,035251		115	3525,1
120	0,030469		120	3046,9
125	0,026424		125	2642,4
130	0,022990		130	2299,0
135	0,020064		135	2006,4
140	0,017563		140	1756,3
145	0,015419		145	1541,9
150	0,013575		150	1357,5