

TEWA TEMPERATURE SENSORS

HIGH PRECISION NTC THERMISTORS AND TEMPERATURE SENSORS

Specification of Epoxy Coated NTC Thermistor

PART NUMBER: **TTS-30KC6-BG**

No. of pages: 2

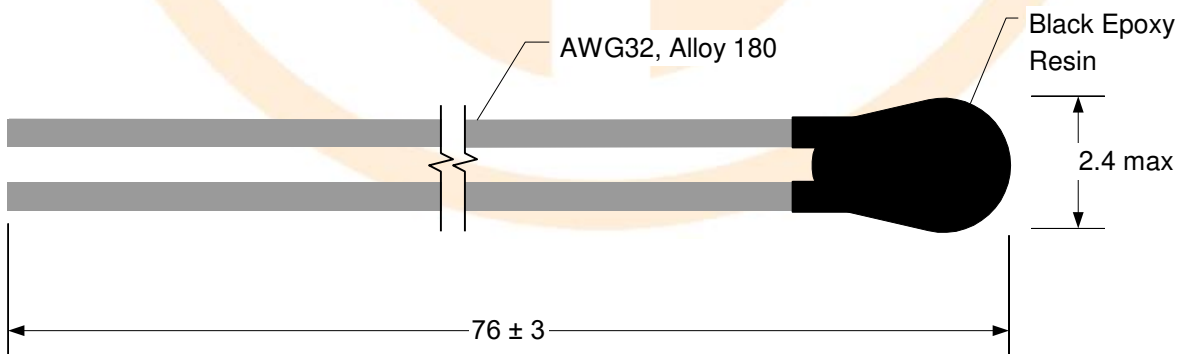
Date: **24.09.2015**

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	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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PART NUMBER: **TTS-30KC6-BG**

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) 4260 $\pm 1\%$				
Material no. 6				
Temp (°C)	R/R(25C) (Ohms)		Temp (°C)	R Value (Ohms)
-40	40,672000		-40	1220160,0
-35	28,909000		-35	867270,0
-30	20,774000		-30	623220,0
-25	15,085000		-25	452550,0
-20	11,065000		-20	331950,0
-15	8,193800		-15	245814,0
-10	6,123700		-10	183711,0
-5	4,616900		-5	138507,0
0	3,510200		0	105306,0
5	2,690400		5	80712,0
10	2,078100		10	62343,0
15	1,617000		15	48510,0
20	1,267300		20	38019,0
25	1,000000		25	30000,0
30	0,794280		30	23828,4
35	0,634890		35	19046,7
40	0,510580		40	15317,4
45	0,413010		45	12390,3
50	0,335980		50	10079,4
55	0,274800		55	8244,0
60	0,225930		60	6777,9
65	0,186690		65	5600,7
70	0,155020		70	4650,6
75	0,129320		75	3879,6
80	0,108370		80	3251,1
85	0,091215		85	2736,5
90	0,077097		90	2312,9
95	0,065428		95	1962,8
100	0,055744		100	1672,3
105	0,047674		105	1430,2
110	0,040921		110	1227,6
115	0,035251		115	1057,5
120	0,030469		120	914,1
125	0,026424		125	792,7
130	0,022990		130	689,7
135	0,020064		135	601,9
140	0,017563		140	526,9
145	0,015419		145	462,6
150	0,013575		150	407,3