

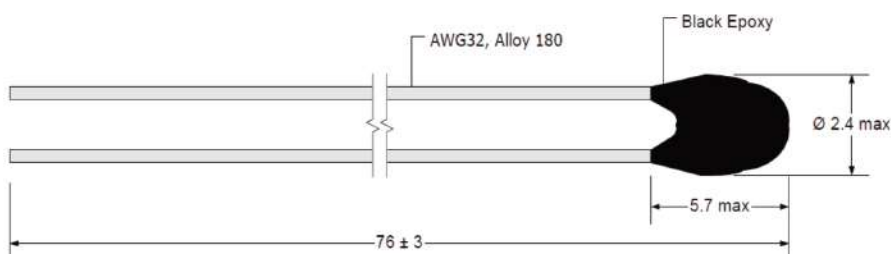


- **High Sensitivity**
- **Epoxy coated**
- **Temperature range -40° C to 125° C**
- **RoHS compatible**

The TTS-20KC6-BG is specifically designed for sensing small changes in temperature for mid-range temperature applications. Due to its high sensitivity and fast response time it is ideal for tight tolerance instrumentation in non-condensing moisture environments.

Specifications	
Sensing Element:	Epoxy coated NTC Thermistor
No-load resistance at 25°C	20000 Ω
Tolerance from 0°C to 70°C	$\pm 0.2^\circ\text{C}$
Beta Value 25/85 constant	4260K $\pm 1\%$
Operating temperature range	-40° C to +125° C
Response Time in well stirred liquid bath	~1 sec
Response Time in still air	~10 sec
Typical Dissipation Constant in still air	0.75 mW/°C
RoHS Compatible	YES

Dimensions





Resistance vs. temperature table

$R(25^{\circ}\text{C}) = 20000 \text{ Ohms}$

$B(25/85) = 4260\text{K} \pm 1\%$

Tolerance $\pm 0.2^{\circ}\text{C}$ from 0° to 70°C

TEMP (°C)	RESISTENCE (Ω)
-40	40,672000
-35	28,909000
-30	20,774000
-25	15,085000
-20	11,065000
-15	8,193800
-10	6,123700
-5	4,616900
0	3,510200
5	2,690400
10	2,078100
15	1,617000
20	1,267300
25	1,000000
30	0,794280
35	0,634890
40	0,510580
45	0,413010
50	0,335980
55	0,274800
60	0,225930
65	0,186690
70	0,155020
75	0,129320
80	0,108370
85	0,091215
90	0,077097
95	0,065428
100	0,055744
105	0,047674
110	0,040921
115	0,035251
120	0,030469
125	0,026424
130	0,022990
135	0,020064
140	0,017563
145	0,015419
150	0,013575

TEMP (°C)	R Value (Ω)
-40	813440,0
-35	578180,0
-30	415480,0
-25	301700,0
-20	221300,0
-15	163876,0
-10	122474,0
-5	92338,0
0	70204,0
5	53808,0
10	41562,0
15	32340,0
20	25346,0
25	20000,0
30	15885,6
35	12697,8
40	10211,6
45	8260,2
50	6719,6
55	5496,0
60	4518,6
65	3733,8
70	3100,4
75	2586,4
80	2167,4
85	1824,3
90	1541,9
95	1308,6
100	1114,9
105	953,5
110	818,4
115	705,0
120	609,4
125	528,5
130	459,8
135	401,3
140	351,3
145	308,4
150	271,5

Order informationen TTS - 20KC6 - BG