



- Specially designed thermistor for use in the medical industry
- Excellent accuracy for measurement in body temperature and room temperature with a tolerance of $\pm 0.05^{\circ}\text{C}$
- Thermally conductive epoxy coating
- Temperature range -40 to 125°C
- RoHS compliant

The medical NTC Thermistor ENTC-EB-2.2k3977-005 is specifically designed for sensing small changes in body temperature or room temperature with very high accuracy ($\pm 0.05^{\circ}\text{C}$).

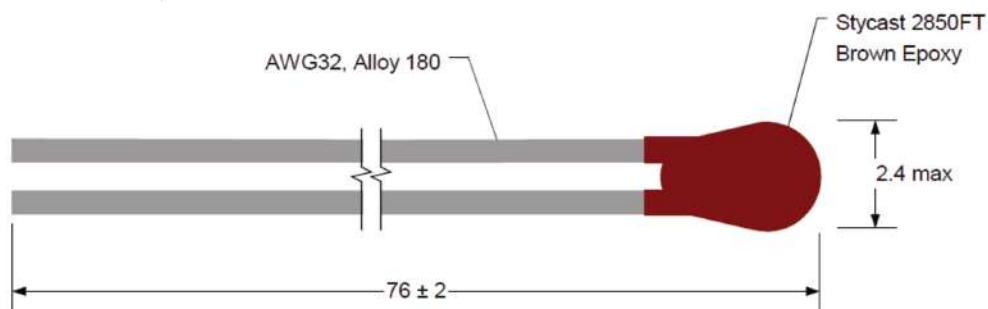
Due to its high sensitivity and high resistance ($2.25\text{k}\Omega$ @ 25°C) it is ideal for use in the medical industry.

Typical applications are:

- Tight tolerance instrumentation
- Temperature sensing, control and compensation
- Esophageal catheters
- Skin sensors
- Oral and rectal probes
- Pharmaceutical manufacturing equipment

Specifications	
Element	NTC Thermistor
Wire material	76mm, 32 AWG, solid alloy 180 leads
Performance characteristics	
Resistance at $+25^{\circ}\text{C}$	2252Ω
Resistance tolerance from 0 to 70°C	$\pm 0.05^{\circ}\text{C}$
Beta value 25/85 constant	$3977\text{k} \pm 0.3\%$
Dissipations factor (in still air)	$\sim 0.75\text{mW}/^{\circ}\text{C}$
Operating temperature range	-40 to 125°C
Response time in well stirred liquid bath	~ 1 sec

Dimensions



Ordering information

Order code: ENTC-EB-2.2k3977-005

Resistance versus temperature table for 2.2K3977-005

R(25) = 2252 Ohms B(25/85) = 3977K ± 0.3%

Temp. °C	KΩ	Temp. °C	KΩ	Temp. °C	KΩ	Temp. °C	KΩ	Temp. °C	KΩ
-40	75.592	1	6.988	42	1.107	83	0.257	124	0.079
-39	70.663	2	6.644	43	1.064	84	0.249	125	0.077
-38	66.173	3	6.318	44	1.023	85	0.241		
-37	61.996	4	6.010	45	0.983	86	0.234		
-36	58.109	5	5.719	46	0.946	87	0.226		
-35	54.541	6	5.444	47	0.910	88	0.220		
-34	51.118	7	5.183	48	0.875	89	0.213		
-33	47.975	8	4.937	49	0.842	90	0.206		
-32	45.045	9	4.703	50	0.811	91	0.200		
-31	42.312	10	4.482	51	0.781	92	0.194		
-30	39.788	11	4.273	52	0.752	93	0.188		
-29	37.380	12	4.075	53	0.724	94	0.183		
-28	35.156	13	3.886	54	0.698	95	0.177		
-27	33.134	14	3.708	55	0.672	96	0.172		
-26	31.134	15	3.539	56	0.648	97	0.167		
-25	29.330	16	3.378	57	0.624	98	0.162		
-24	27.617	17	3.226	58	0.602	99	0.157		
-23	26.026	18	3.081	59	0.581	100	0.153		
-22	24.536	19	2.944	60	0.560	101	0.149		
-21	23.140	20	2.814	61	0.540	102	0.144		
-20	21.838	21	2.690	62	0.521	103	0.140		
-19	20.606	22	2.572	63	0.503	104	0.136		
-18	19.456	23	2.460	64	0.486	105	0.132		
-17	18.377	24	2.353	65	0.469	106	0.129		
-16	17.364	25	2.252	66	0.453	107	0.125		
-15	16.415	26	2.153	67	0.437	108	0.122		
-14	15.520	27	2.064	68	0.422	109	0.118		
-13	14.681	28	1.977	69	0.408	110	0.115		
-12	13.892	29	1.893	70	0.394	111	0.112		
-11	13.150	30	1.814	71	0.381	112	0.109		
-10	12.452	31	1.739	72	0.369	113	0.106		
-9	11.795	32	1.667	73	0.356	114	0.103		
-8	11.177	33	1.598	74	0.345	115	0.100		
-7	10.595	34	1.533	75	0.333	116	0.098		
-6	10.046	35	1.471	76	0.322	117	0.095		
-5	9.529	36	1.411	77	0.312	118	0.092		
-4	9.042	37	1.354	78	0.302	119	0.090		
-3	8.582	38	1.300	79	0.292	120	0.088		
-2	8.148	39	1.248	80	0.283	121	0.085		
-1	7.739	40	1.199	81	0.274	122	0.083		
0	7.353	41	1.152	82	0.265	123	0.081		

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