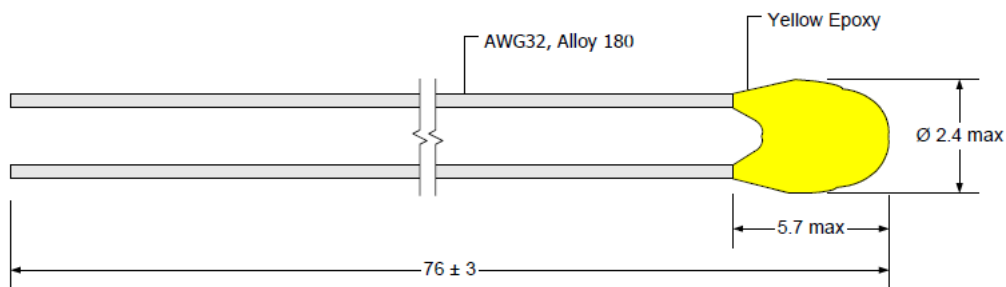


The ENTC-EB-10k3977-02 is specifically designed for sensing small changes in temperature for mid-range temperature applications. Due to its high sensitivity and high resistance (10kOhm @25°C) it is ideal for tight tolerance instrumentation in non-condensing moisture environments.

Specifications	
Input Parameters	
Element	NTC Thermistor
Wire material	76mm bare leads, 32 AWG solid alloy 180
Performance characteristics	
Resistance at +25°C	10000Ω
Resistance tolerance from 0 to 70°C	±0.2°C
Beta value 25/85 constant	3977k ± 0.5%
Dissipation factor (in air)	~ 2mW/°C
Thermal time constant (in air)	~ 15 sec
Operating temperature range	- 40 to 150°C

Dimensions



Ordering information

Order code: ENTC-EB-10k3977-02



Resistance versus temperature table for 10K3977-02

R(25) = 10000 Ohms B(25/85) = 3977K ± 0.5%

Temp. °C	KΩ	Temp. °C	KΩ	Temp. °C	KΩ	Temp. °C	KΩ	Temp. °C	KΩ
-40		1	31.030	42	4.916	83	1.140	124	0.351
-39		2	29.498	43	4.725	84	1.104	125	0.342
-38		3	28.051	44	4.543	85	1.070	126	0.333
-37		4	26.683	45	4.368	86	1.037	127	0.325
-36		5	25.391	46	4.201	87	1.005	128	0.317
-35		6	24.170	47	4.041	88	0.974	129	0.309
-34		7	23.015	48	3.888	89	0.944	130	0.301
-33		8	21.918	49	3.742	90	0.916	131	0.294
-32		9	20.884	50	3.602	91	0.888	132	0.286
-31		10	19.902	51	3.468	92	0.861	133	0.279
-30	176.976	11	18.970	52	3.340	93	0.835	134	0.272
-29	166.354	12	18.091	53	3.217	94	0.810	135	0.266
-28	156.443	13	17.256	54	3.099	95	0.786	136	0.259
-27	147.176	14	16.461	55	2.986	96	0.763	137	0.253
-26	138.517	15	15.710	56	2.878	97	0.741	138	0.247
-25	130.422	16	15.000	57	2.774	98	0.720	139	0.241
-24	122.846	17	14.325	58	2.675	99	0.698	140	0.235
-23	115.759	18	13.681	59	2.579	100	0.679	141	0.230
-22	109.121	19	13.073	60		101	0.659	142	0.224
-21	102.904	20	12.491	61	2.400	102	0.640	143	0.219
-20	97.083	21	11.940	62	2.316	103	0.622	144	0.214
-19	91.621	22	11.421	63	2.235	104	0.605	145	0.209
-18	86.501	23	10.924	64	2.157	105	0.587	146	0.204
-17	81.696	24	10.448	65	2.083	106	0.571	147	0.199
-16	77.189	25	10.000	66	2.011	107	0.556	148	0.195
-15	72.957	26	9.574	67	1.942	108	0.540	149	0.190
-14	68.983	27	9.165	68	1.876	109	0.525	150	0.186
-13	65.244	28	8.779	69	1.813	110	0.511		
-12	61.736	29	8.406	70	1.752	111	0.497		
-11	58.433	30	8.055	71	1.693	112	0.483		
-10	55.329	31	7.722	72	1.637	113	0.470		
-9	52.407	32	7.402	73	1.582	114	0.457		
-8	49.658	33	7.096	74	1.530	115	0.445		
-7	47.065	34	6.807	75	1.480	116	0.433		
-6	44.627	35	6.532	76	1.432	117	0.422		
-5	42.327	36	6.266	77	1.385	118	0.411		
-4	40.160	37	6.017	78	1.340	119	0.400		
-3	38.113	38	5.777	79	1.297	120	0.390		
-2	36.186	39	5.549	80	1.255	121	0.379		
-1	34.369	40	5.324	81	1.215	122	0.370		
0	32.650	41	5.115	82	1.177	123	0.360		