



## MODEL 55017

### Precision Glass NTC Thermistor

- Excellent Long Term Stability
- Glass Hermetic Seal
- Use up to 200°C
- 6,000 ohm Resistance @ 25°C
- Interchangeable  $\pm 0.2^\circ\text{C}$ , 0°C to 70°C
- Pressed Disk Ceramic Sensor
- High sensitivity
- 0.095" (2.4 mm) Maximum Diameter
- 32 AWG, 2.5" (6.4 cm) long Gold Plated Dumet leads
- RoHS Compliance

#### FEATURES

- Glass Hermetic Seal
- 6,000 Ohm Resistance @ 25°C
- 0.095" (2.4 mm) Maximum Diameter
- Interchangeability
- Excellent High Temperature Performance
- Excellent Long Term Stability
- High Sensitivity
- RoHS Compliance

#### APPLICATIONS

- High Moisture Applications
- Low to Mid Range Temperature Applications
- Drop in Replacement for 44000 Series Epoxy
- Tight Tolerance Instrumentation
- Use up to 200°C
- Applications Requiring Improved Stability
- Applications Requiring Sensing Small Changes in Temperature
- Allows use in Applications World-wide

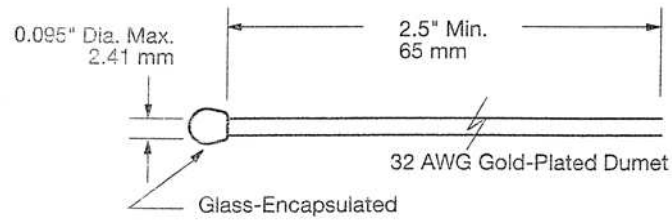
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### PERFORMANCE SPECS

Parameter	Units	Value
Resistance @ 25°C	Ohms	6,000
Tolerance 0°C to 70°C	°C	± 0.2
Beta Value 25/85	K	3978
Tolerance on Beta Value	%	0.8
Time response in air	Seconds	< 15
Dissipation Constant in air	mW/°C	1.5
Insulation Resistance (Min. of 100 Mohms for 1 sec.)	Volts	500

### MECHANICAL DETAILS



**RESISTANCE VS TEMPERATURE TABLE**

Temp °C	K-Ohms	Temp °C	K-Ohms	Temp °C	K-Ohms	Temp °C	K-Ohms	Temp °C	K-Ohms
-55	578.400	-15	43.770	25	6.000	65	1.2500	105	0.3525
-54	537.400	-14	41.400	26	5.744	66	1.2070	106	0.3426
-53	499.300	-13	39.170	27	5.499	67	1.1650	107	0.3330
-52	464.400	-12	37.060	28	5.267	68	1.1260	108	0.3240
-51	432.100	-11	35.060	29	5.046	69	1.0880	109	0.3149
-50	402.300	-10	33.200	30	4.836	70	1.0510	110	0.3064
-49	374.600	-9	31.470	31	4.633	71	1.0160	111	0.2979
-48	349.000	-8	29.810	32	4.441	72	0.9818	112	0.2899
-47	325.300	-7	28.240	33	4.260	73	0.9490	113	0.2819
-46	303.500	-6	26.780	34	4.084	74	0.9179	114	0.2744
-45	283.200	-5	25.400	35	3.919	75	0.8875	115	0.2670
-44	264.500	-4	24.100	36	3.762	76	0.8587	116	0.2600
-43	247.000	-3	22.880	37	3.610	77	0.8307	117	0.2531
-42	230.900	-2	21.720	38	3.466	78	0.8038	118	0.2464
-41	215.900	-1	20.620	39	3.328	79	0.7780	119	0.2398
-40	201.900	0	19.600	40	3.197	80	0.7532	120	0.2337
-39	189.000	1	18.620	41	3.069	81	0.7292	121	0.2275
-38	176.900	2	17.700	42	2.949	82	0.7060	122	0.2217
-37	165.700	3	16.840	43	2.835	83	0.6839	123	0.2161
-36	155.300	4	16.020	44	2.726	84	0.6623	124	0.2105
-35	145.600	5	15.240	45	2.621	85	0.6418	125	0.2052
-34	136.600	6	14.500	46	2.521	86	0.6218	126	0.1998
-33	128.200	7	13.810	47	2.425	87	0.6027	127	0.1948
-32	120.300	8	13.150	48	2.333	88	0.5843	128	0.1900
-31	113.000	9	12.530	49	2.246	89	0.5664	129	0.1852
-30	106.200	10	11.940	50	2.162	90	0.5491	130	0.1806
-29	99.830	11	11.380	51	2.081	91	0.5326	131	0.1761
-28	93.890	12	10.850	52	2.004	92	0.5166	132	0.1716
-27	88.320	13	10.350	53	1.930	93	0.5012	133	0.1676
-26	83.130	14	9.879	54	1.859	94	0.4862	134	0.1633
-25	78.280	15	9.429	55	1.792	95	0.4718	135	0.1593
-24	73.720	16	9.000	56	1.727	96	0.4580	136	0.1556
-23	69.460	17	8.595	57	1.665	97	0.4447	137	0.1519
-22	65.490	18	8.209	58	1.605	98	0.4316	138	0.1481
-21	61.760	19	7.844	59	1.548	99	0.4191	139	0.1447
-20	58.270	20	7.497	60	1.493	100	0.4071	140	0.1412
-19	54.990	21	7.167	61	1.440	101	0.3954	141	0.1377
-18	51.900	22	6.853	62	1.389	102	0.3842	142	0.1345
-17	49.020	23	6.554	63	1.341	103	0.3733	143	0.1313
-16	46.330	24	6.272	64	1.294	104	0.3626	144	0.1284
								145	0.1252
								146	0.1223
								147	0.1196
								148	0.1167
								149	0.1140
								150	0.1115