

MODEL 55007

Precision Glass NTC Thermistor

- Excellent Long Term Stability
- Glass Hermetic Seal
- Use up to 200°C
- 5000 ohm Resistance @ 25°C
- Interchangeable ±0.2°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
- 5000 Ohm Resistance @ 25°C
- 0.095” (2.4 mm) Maximum Diameter
- Interchangeability
- Excellent High Temperature Performance
- Excellent Long Term Stability
- High Sensitivity
- RoHS Compliance

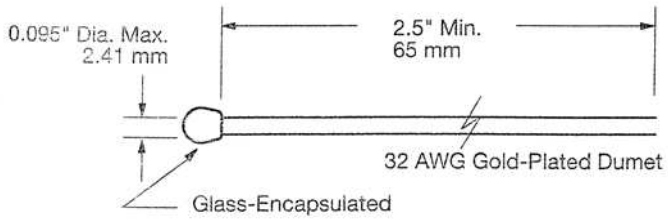
APPLICATIONS

- 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

PERFORMANCE SPECS

Parameter	Units	Value
Resistance @ 25°C	Ohms	5000
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	482.200	-15	36.490	25	5.000	65	1.0410	105	0.2940
-54	447.900	-14	34.500	26	4.787	66	1.0060	106	0.2857
-53	416.300	-13	32.630	27	4.583	67	0.9711	107	0.2778
-52	387.100	-12	30.880	28	4.389	68	0.9380	108	0.2701
-51	360.200	-11	29.230	29	4.204	69	0.9063	109	0.2626
-50	335.300	-10	27.670	30	4.029	70	0.8757	110	0.2554
-49	312.300	-9	26.210	31	3.861	71	0.8464	111	0.2484
-48	291.000	-8	24.830	32	3.702	72	0.8183	112	0.2416
-47	271.300	-7	23.540	33	3.549	73	0.7912	113	0.2351
-46	253.000	-6	22.320	34	3.404	74	0.7651	114	0.2287
-45	236.200	-5	21.170	35	3.266	75	0.7400	115	0.2226
-44	220.500	-4	20.080	36	3.134	76	0.7159	116	0.2167
-43	205.900	-3	19.060	37	3.008	77	0.6927	117	0.2109
-42	192.500	-2	18.100	38	2.888	78	0.6703	118	0.2053
-41	180.000	-1	17.190	39	2.773	79	0.6488	119	0.1999
-40	168.300	0	16.330	40	2.663	80	0.6281	120	0.1947
-39	157.500	1	15.520	41	2.559	81	0.6082	121	0.1896
-38	147.500	2	14.750	42	2.459	82	0.5889	122	0.1847
-37	138.200	3	14.030	43	2.363	83	0.5704	123	0.1799
-36	129.500	4	13.340	44	2.272	84	0.5526	124	0.1753
-35	121.400	5	12.700	45	2.184	85	0.5354	125	0.1708
-34	113.900	6	12.090	46	2.101	86	0.5188	126	0.1664
-33	106.900	7	11.510	47	2.021	87	0.5028	127	0.1622
-32	100.300	8	10.960	48	1.944	88	0.4874	128	0.1581
-31	94.220	9	10.440	49	1.871	89	0.4726	129	0.1541
-30	88.530	10	9.951	50	1.801	90	0.4582	130	0.1503
-29	83.220	11	9.486	51	1.734	91	0.4444	131	0.1465
-28	78.260	12	9.046	52	1.670	92	0.4310	132	0.1429
-27	73.620	13	8.628	53	1.608	93	0.4182	133	0.1394
-26	69.290	14	8.232	54	1.549	94	0.4057	134	0.1360
-25	65.240	15	7.857	55	1.493	95	0.3937	135	0.1326
-24	61.450	16	7.500	56	1.439	96	0.3821	136	0.1294
-23	57.900	17	7.162	57	1.387	97	0.3709	137	0.1263
-22	54.580	18	6.841	58	1.337	98	0.3601	138	0.1232
-21	51.470	19	6.536	59	1.290	99	0.3497	139	0.1203
-20	48.560	20	6.247	60	1.244	100	0.3396	140	0.1174
-19	45.830	21	5.972	61	1.200	101	0.3298	141	0.1146
-18	43.270	22	5.710	62	1.158	102	0.3204	142	0.1119
-17	40.860	23	5.462	63	1.117	103	0.3113	143	0.1092
-16	38.610	24	5.225	64	1.079	104	0.3025	144	0.1067
								145	0.1042
								146	0.1018
								147	0.0994
								148	0.0971
								149	0.0949
								150	0.0927

ORDERING INFORMATION

Model Number	Description	Ω @25ºC	MOQ
055104	55007 GEM THERM	5,000	200
055304	55007-BP (100 PCS) GEM THERM	5,000	200

* For quantities less than Minimum Order Quantity – contact distribution

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