



MODEL 45007

High Temp Glass NTC Thermistor

- Superior Long Term Stability
- Glass hermetic Seal
- Use up to 250°C
- 5000 ohm Resistance @ 25°C
- Interchangeable $\pm 0.2^{\circ}\text{C}$, 0°C to 70°C
- Pressed Disk Ceramic Sensor
- High sensitivity
- Thermally conductive epoxy coating
- 32 AWG, 3" (7.6 cm) long Gold plated Dumet leads
- RoHS Compliant

FEATURES

- Glass Hermetic Seal
- 5000 Ohm Resistance @ 25°C
- Interchangeability
- Excellent High Temperature Performance
- Superior Long Term Stability
- High Sensitivity
- Thermally Conductive Epoxy Coating
- RoHS Compliance

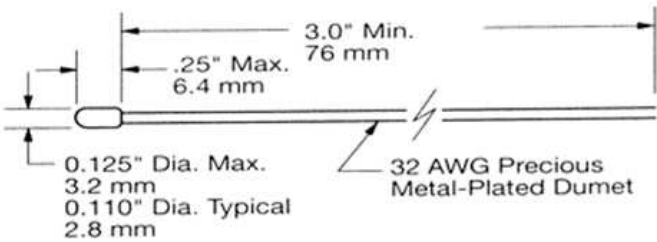
APPLICATIONS

- High Moisture Applications
- Low to Mid Range Temperature Applications
- Tight Tolerance Instrumentation
- Applications Requiring Excellent Stability
- Applications Requiring Sensing Small Changes in Temperature
- Non-condensing Moisture Environments
- 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	< 2.5
Dissipation Constant in air	mW/°C	10
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	-13	32.630	29	4.204	71	0.8464	113	0.2351
-54	447.900	-12	30.880	30	4.029	72	0.8183	114	0.2287
-53	416.300	-11	29.230	31	3.861	73	0.7912	115	0.2226
-52	387.100	-10	27.670	32	3.702	74	0.7651	116	0.2167
-51	360.200	-9	26.210	33	3.549	75	0.7400	117	0.2109
-50	335.300	-8	24.830	34	3.404	76	0.7159	118	0.2053
-49	312.300	-7	23.540	35	3.266	77	0.6927	119	0.1999
-48	291.000	-6	22.320	36	3.134	78	0.6703	120	0.1947
-47	271.300	-5	21.170	37	3.008	79	0.6488	121	0.1896
-46	253.000	-4	20.080	38	2.888	80	0.6281	122	0.1847
-45	236.200	-3	19.060	39	2.773	81	0.6082	123	0.1799
-44	220.500	-2	18.100	40	2.663	82	0.5889	124	0.1753
-43	205.900	-1	17.190	41	2.559	83	0.5704	125	0.1708
-42	192.500	0	16.330	42	2.459	84	0.5526	126	0.1664
-41	180.000	1	15.520	43	2.363	85	0.5354	127	0.1622
-40	168.300	2	14.750	44	2.272	86	0.5188	128	0.1581
-39	157.500	3	14.030	45	2.184	87	0.5028	129	0.1541
-38	147.500	4	13.340	46	2.101	88	0.4874	130	0.1503
-37	138.200	5	12.700	47	2.021	89	0.4726	131	0.1465
-36	129.500	6	12.090	48	1.944	90	0.4582	132	0.1429
-35	121.400	7	11.510	49	1.871	91	0.4444	133	0.1394
-34	113.900	8	10.960	50	1.801	92	0.4310	134	0.1360
-33	106.900	9	10.440	51	1.734	93	0.4182	135	0.1326
-32	100.300	10	9.951	52	1.670	94	0.4057	136	0.1294
-31	94.220	11	9.486	53	1.608	95	0.3937	137	0.1263
-30	88.530	12	9.046	54	1.549	96	0.3821	138	0.1232
-29	83.220	13	8.628	55	1.493	97	0.3709	139	0.1203
-28	78.260	14	8.232	56	1.439	98	0.3601	140	0.1174
-27	73.620	15	7.857	57	1.387	99	0.3497	141	0.1146
-26	69.290	16	7.500	58	1.337	100	0.3396	142	0.1119
-25	65.240	17	7.162	59	1.290	101	0.3298	143	0.1092
-24	61.450	18	6.841	60	1.244	102	0.3204	144	0.1067
-23	57.900	19	6.536	61	1.200	103	0.3113	145	0.1042
-22	54.580	20	6.247	62	1.158	104	0.3025	146	0.1018
-21	51.470	21	5.972	63	1.117	105	0.2940	147	0.0994
-20	48.560	22	5.710	64	1.079	106	0.2857	148	0.0971
-19	45.830	23	5.462	65	1.0410	107	0.2778	149	0.0949
-18	43.270	24	5.225	66	1.0060	108	0.2701	150	0.0927
-17	40.860	25	5.000	67	0.9711	109	0.2626		
-16	38.610	26	4.787	68	0.9380	110	0.2554		
-15	36.490	27	4.583	69	0.9063	111	0.2484		
-14	34.500	28	4.389	70	0.8757	112	0.2416		

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ORDERING INFORMATION

Model Number	Description	Ω @25°C	MOQ
090043	45007 THERMISTOR	5,000	100
091533	45007-BP (100 PCS) THERM	5,000	100

* For quantities less than Minimum Order Quantity – contact distribution

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