



MODEL 45005

High Temp Glass NTC Thermistor

- Superior Long Term Stability
- Glass Hermetic Seal
- Use up to 250°C
- 3000 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
- 3000 Ohm Resistance @ 25°C
- Interchangeability
- Excellent High Temperature Performance
- Superior Long Term Stability
- High Sensitivity
- Thermally Conductive Epoxy Coating
- RoHS Compliance

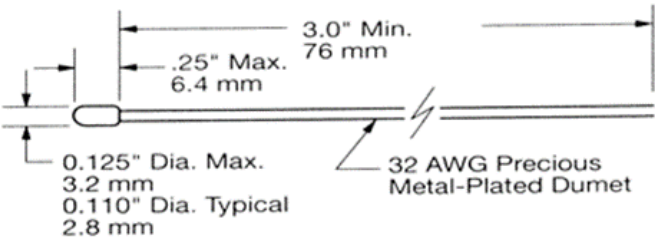
APPLICATIONS

- High Moisture Applications
- Low to Mid Range Temperature Applications
- Tight Tolerance Instrumentation
- Use up to 250°C
- 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	3000
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	289.200	-13	19.580	29	2.523	71	0.5078	113	0.1411
-54	268.600	-12	18.520	30	2.417	72	0.4909	114	0.1372
-53	249.700	-11	17.530	31	2.317	73	0.4747	115	0.1336
-52	232.200	-10	16.600	32	2.221	74	0.4590	116	0.1300
-51	216.000	-9	15.720	33	2.130	75	0.4440	117	0.1265
-50	201.100	-8	14.900	34	2.042	76	0.4295	118	0.1232
-49	187.300	-7	14.120	35	1.959	77	0.4156	119	0.1199
-48	174.500	-6	13.390	36	1.880	78	0.4022	120	0.1168
-47	162.700	-5	12.700	37	1.805	79	0.3893	121	0.1138
-46	151.700	-4	12.050	38	1.733	80	0.3769	122	0.1108
-45	141.600	-3	11.440	39	1.664	81	0.3649	123	0.1079
-44	132.200	-2	10.860	40	1.598	82	0.3534	124	0.1052
-43	123.500	-1	10.310	41	1.535	83	0.3422	125	0.1025
-42	115.400	0	9.796	42	1.475	84	0.3315	126	0.0999
-41	107.900	1	9.310	43	1.418	85	0.3212	127	0.0973
-40	101.000	2	8.851	44	1.363	86	0.3113	128	0.0949
-39	94.480	3	8.417	45	1.310	87	0.3017	129	0.0925
-38	88.460	4	8.006	46	1.260	88	0.2924	130	0.0902
-37	82.870	5	7.618	47	1.212	89	0.2835	131	0.0879
-36	77.660	6	7.252	48	1.167	90	0.2749	132	0.0857
-35	72.810	7	6.905	49	1.123	91	0.2666	133	0.0836
-34	68.300	8	6.576	50	1.081	92	0.2586	134	0.0816
-33	64.090	9	6.265	51	1.040	93	0.2509	135	0.0796
-32	60.170	10	5.971	52	1.002	94	0.2434	136	0.0776
-31	56.510	11	5.692	53	0.9650	95	0.2362	137	0.0758
-30	53.100	12	5.427	54	0.9296	96	0.2293	138	0.0739
-29	49.910	13	5.177	55	0.8958	97	0.2226	139	0.0722
-28	46.940	14	4.939	56	0.8633	98	0.2161	140	0.0704
-27	44.160	15	4.714	57	0.8322	99	0.2098	141	0.0688
-26	41.560	16	4.500	58	0.8023	100	0.2038	142	0.0671
-25	39.130	17	4.297	59	0.7737	101	0.1979	143	0.0655
-24	36.860	18	4.105	60	0.7463	102	0.1922	144	0.0640
-23	34.730	19	3.922	61	0.7199	103	0.1868	145	0.0625
-22	32.740	20	3.748	62	0.6947	104	0.1815	146	0.0611
-21	30.870	21	3.583	63	0.6704	105	0.1764	147	0.0596
-20	29.130	22	3.426	64	0.6471	106	0.1714	148	0.0583
-19	27.490	23	3.277	65	0.6247	107	0.1667	149	0.0569
-18	25.950	24	3.135	66	0.6033	108	0.1620	150	0.0556
-17	24.510	25	3.000	67	0.5826	109	0.1576		
-16	23.160	26	2.872	68	0.5628	110	0.1532		
-15	21.890	27	2.750	69	0.5437	111	0.1490		
-14	20.700	28	2.633	70	0.5254	112	0.1450		

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ORDERING INFORMATION

Model Number	Description	Ω @25°C	MOQ
090049	45005 THERMISTOR	3,000	100
091531	45005-BP (100 PCS) THERM	3,000	100

* For quantities less than Minimum Order Quantity – contact distribution

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