

45005 High Temp Glass NTC Thermistor



- Superior Long Term Stability
- Glass Hermetic Seal
- Use up to 250°C
- 3,000 ohm Resistance @ 25°C
- Interchangeable $\pm 0.2^{\circ}\text{C}$, 0° to 70°C,
- Pressed Disk Ceramic Sensor
- High sensitivity
- 32 AWG, 3" (7.6 cm) long Gold Plated Dumet leads
- RoHS Compliant

DESCRIPTION

Hermetically Sealed Glass Encapsulated Precision Interchangeable NTC Thermistor utilizing high stability pressed-disk ceramic sensor for high temperature and high stability applications.

FEATURES

- Glass Hermetic Seal
- 3,000 Ohm Resistance @ 25°C
- Interchangeability
- Excellent High Temperature Performance
- Superior Long Term Stability
- High Sensitivity
- RoHS Compliance

APPLICATIONS

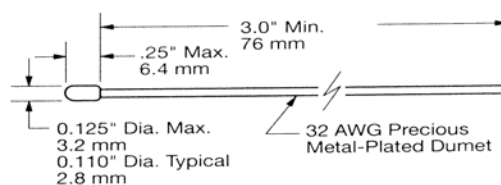
- High Moisture Applications
- Low to Mid Range Temperature Applications
- Tight Tolerance Instrumentation
- Use up to 250°C
- Applications Requiring Excellent Stability
- Applications Requiring Sensing Small Changes in Temperature
- Non-condensing Moisture Environments
- Allows use in Applications World-wide

PERFORMANCE SPECS

Parameter	Units	Value
Resistance @ 25°C	Ohms	3,000
tolerance 0°C to 70°C	°C	± 0.2
Beta Value 25/85	K	3978
Tolerance on Beta Value	%	0.8
Time response in stirred oil bath	Seconds	< 2.5
Dissipation Constant in stirred oil bath	mW/°C	10
Insulation Resistance (Min. of 100Mohms for 1 Sec.)	Volts	500

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MECHANICAL DETAILS



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

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ORDERING INFORMATION

Part 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

NORTH AMERICA

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