



MODEL 45004

Glass NTC Thermistor

- 2252 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
- 2252 Ohm Resistance @ 25°C
- Interchangeability
- Excellent High Temperature Performance
- Superior Long Term Stability
- High Sensitivity
- Thermally Conductive Epoxy Coating
- RoHS Compliance

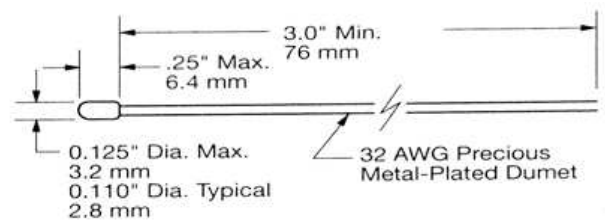
APPLICATIONS

- High Moisture Applications
- Low to Mid Range Temperature Applications
- Tight Tolerance Instrumentation
- 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	2252
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	217.100	-13	14.700	29	1.894	71	0.3812	113	0.1058
-54	201.700	-12	13.910	30	1.815	72	0.3685	114	0.1030
-53	187.400	-11	13.160	31	1.739	73	0.3562	115	0.1002
-52	174.300	-10	12.460	32	1.667	74	0.3445	116	0.0976
-51	162.200	-9	11.810	33	1.599	75	0.3331	117	0.0950
-50	151.000	-8	11.190	34	1.533	76	0.3223	118	0.0925
-49	140.600	-7	10.600	35	1.471	77	0.3118	119	0.0900
-48	131.000	-6	10.050	36	1.412	78	0.3017	120	0.0877
-47	122.100	-5	9.534	37	1.355	79	0.2920	121	0.0854
-46	113.900	-4	9.046	38	1.301	80	0.2827	122	0.0832
-45	106.300	-3	8.586	39	1.249	81	0.2737	123	0.0811
-44	99.260	-2	8.151	40	1.200	82	0.2650	124	0.0790
-43	92.720	-1	7.741	41	1.152	83	0.2567	125	0.0770
-42	86.650	0	7.355	42	1.107	84	0.2486	126	0.0750
-41	81.020	1	6.989	43	1.064	85	0.2409	127	0.0731
-40	75.790	2	6.644	44	1.023	86	0.2334	128	0.0713
-39	70.930	3	6.319	45	0.9838	87	0.2262	129	0.0695
-38	66.410	4	6.011	46	0.9462	88	0.2193	130	0.0678
-37	62.210	5	5.719	47	0.9102	89	0.2126	131	0.0661
-36	58.300	6	5.444	48	0.8758	90	0.2061	132	0.0644
-35	54.660	7	5.183	49	0.8428	91	0.1999	133	0.0629
-34	51.270	8	4.937	50	0.8113	92	0.1939	134	0.0613
-33	48.110	9	4.703	51	0.7811	93	0.1881	135	0.0598
-32	45.170	10	4.482	52	0.7522	94	0.1825	136	0.0584
-31	42.420	11	4.273	53	0.7245	95	0.1771	137	0.0570
-30	39.860	12	4.074	54	0.6979	96	0.1719	138	0.0556
-29	37.470	13	3.886	55	0.6725	97	0.1669	139	0.0543
-28	35.240	14	3.708	56	0.6481	98	0.1620	140	0.0530
-27	33.150	15	3.539	57	0.6248	99	0.1573	141	0.0517
-26	31.200	16	3.378	58	0.6024	100	0.1528	142	0.0505
-25	29.380	17	3.226	59	0.5809	101	0.1484	143	0.0493
-24	27.670	18	3.081	60	0.5603	102	0.1442	144	0.0482
-23	26.070	19	2.944	61	0.5405	103	0.1401	145	0.0470
-22	24.580	20	2.814	62	0.5215	104	0.1361	146	0.0459
-21	23.180	21	2.690	63	0.5033	105	0.1323	147	0.0449
-20	21.870	22	2.572	64	0.4858	106	0.1286	148	0.0438
-19	20.640	23	2.460	65	0.4690	107	0.1250	149	0.0428
-18	19.480	24	2.354	66	0.4529	108	0.1216	150	0.0418
-17	18.400	25	2.252	67	0.4374	109	0.1182		
-16	17.390	26	2.156	68	0.4225	110	0.1150		
-15	16.430	27	2.064	69	0.4082	111	0.1118		
-14	15.540	28	1.977	70	0.3945	112	0.1088		

ORDERING INFORMATION

Model Number	Description	Ω @25°C	MOQ
090048	45004 THERMISTOR	2252	100
091530	45004-BP (100 PCS) THERM	2252	100

* For quantities less than Minimum Order Quantity – contact distribution

NORTH AMERICA

Measurement Specialties, Inc.,
a TE Connectivity Company
Tel: 800-522-6752
customercare.ando@te.com

EUROPE

Measurement Specialties (Europe), Ltd.,
a TE Connectivity Company
Tel: 800-440-5100
customercare.tlse@te.com

ASIA

Measurement Specialties (China), Ltd.,
a TE Connectivity Company
Tel: 0400-820-6015
customercare.chdu@te.com

te.com/sensorsolutions

Measurement Specialties, Inc., a TE Connectivity company.

Measurement Specialties (MEAS), American Sensor Technologies (AST), TE Connectivity, TE Connectivity (logo) and EVERY CONNECTION COUNTS are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2016 TE Connectivity Ltd. family of companies All Rights Reserved.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TE Connectivity:](#)

[11029030-00](#)