



## MODEL 45016

### High Temp Glass NTC Thermistor

- Superior Long Term Stability
- Glass Hermetic Seal
- Use up to 250°C
- 10,000 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
- 10,000 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
- 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

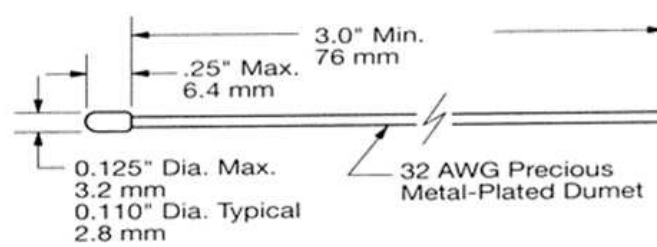
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### PERFORMANCE SPECS

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

### MECHANICAL DETAILS



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**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	964.000	-13	65.280	29	8.410	71	1.6930	113	0.4698
-54	895.600	-12	61.770	30	8.060	72	1.6360	114	0.4574
-53	832.100	-11	58.440	31	7.722	73	1.5820	115	0.4449
-52	774.000	-10	55.330	32	7.402	74	1.5300	116	0.4334
-51	720.200	-9	52.440	33	7.100	75	1.4790	117	0.4218
-50	670.500	-8	49.690	34	6.807	76	1.4310	118	0.4107
-49	624.300	-7	47.070	35	6.532	77	1.3850	119	0.3996
-48	581.700	-6	44.630	36	6.270	78	1.3400	120	0.3894
-47	542.200	-5	42.340	37	6.017	79	1.2970	121	0.3792
-46	505.800	-4	40.170	38	5.777	80	1.2550	122	0.3694
-45	472.000	-3	38.130	39	5.546	81	1.2150	123	0.3601
-44	440.800	-2	36.190	40	5.329	82	1.1770	124	0.3508
-43	411.700	-1	34.370	41	5.116	83	1.1400	125	0.3419
-42	384.800	0	32.660	42	4.916	84	1.1040	126	0.3330
-41	359.800	1	31.030	43	4.725	85	1.0700	127	0.3246
-40	336.500	2	29.500	44	4.543	86	1.0360	128	0.3166
-39	315.000	3	28.060	45	4.369	87	1.0040	129	0.3086
-38	294.900	4	26.690	46	4.202	88	0.9738	130	0.3011
-37	276.200	5	25.400	47	4.042	89	0.9441	131	0.2935
-36	258.900	6	24.170	48	3.889	90	0.9152	132	0.2860
-35	242.700	7	23.020	49	3.743	91	0.8877	133	0.2793
-34	227.700	8	21.920	50	3.603	92	0.8610	134	0.2722
-33	213.600	9	20.880	51	3.469	93	0.8353	135	0.2655
-32	200.600	10	19.900	52	3.340	94	0.8104	136	0.2593
-31	188.400	11	18.970	53	3.217	95	0.7864	137	0.2531
-30	177.000	12	18.090	54	3.099	96	0.7633	138	0.2469
-29	166.400	13	17.260	55	2.986	97	0.7411	139	0.2411
-28	156.500	14	16.470	56	2.878	98	0.7194	140	0.2353
-27	147.200	15	15.710	57	2.774	99	0.6985	141	0.2296
-26	138.500	16	15.000	58	2.675	100	0.6785	142	0.2242
-25	130.500	17	14.330	59	2.580	101	0.6590	143	0.2189
-24	122.900	18	13.680	60	2.488	102	0.6403	144	0.2140
-23	115.800	19	13.070	61	2.400	103	0.6221	145	0.2087
-22	109.100	20	12.500	62	2.316	104	0.6044	146	0.2038
-21	102.900	21	11.940	63	2.235	105	0.5875	147	0.1994
-20	97.110	22	11.420	64	2.157	106	0.5710	148	0.1945
-19	91.650	23	10.920	65	2.0830	107	0.5551	149	0.1901
-18	86.500	24	10.450	66	2.0110	108	0.5400	150	0.1859
-17	81.710	25	10.000	67	1.9420	109	0.5249		
-16	77.220	26	9.574	68	1.8760	110	0.5107		
-15	72.960	27	9.165	69	1.8130	111	0.4964		
-14	69.010	28	8.779	70	1.7520	112	0.4831		

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### ORDERING INFORMATION

Model Number	Description	$\Omega$ @25°C	MOQ
090053	45016 THERMISTOR	10,000	100
091535	45016-BP (100 PCS) THERM	10,000	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](mailto:customercare.ando@te.com)

#### EUROPE

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

#### ASIA

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

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