

44105 Thermistor with FEP Sheath



FEP Sheath for Hostile Environments
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 Silver plated
copper leads
RoHS Compliant

DESCRIPTION

FEP sheathed epoxy encapsulated precision interchangeable NTC thermistor utilizing high stability pressed-disk ceramic sensor for use in harsh chemical environments. Sensor is protected by a 2" (51mm) FEP sheath for protection from harsh chemicals. One inner lead is sleeved with PTFE tubing for insulation. A nickel stiffening wire allows shaping of the sheath.

FEATURES

- FEP Sheath
- 3000 Ohm Resistance @ 25 °C
- Interchangeability
- Good Long Term Stability
- High Sensitivity
- Thermally Conductive Epoxy Coating
- RoHS Compliance

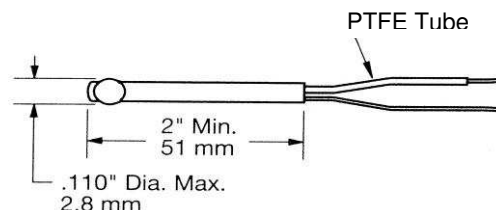
APPLICATIONS

- Harsh Chemical Environments
- Mid-range Temperature Applications
- Tight Tolerance Applications
- General Applications Requiring 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	$^{\circ}\text{C}$	± 0.2
Beta Value 25/85	K	3978
Tolerance on Beta Value	%	0.8
Time response in air	Seconds	< 25
Insulation Resistance (Min. of 100Mohms for 1 Sec.)	Volts	500

MECHANICAL DETAILS



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

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ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
095404	44105 THERM, FEP ENCAPSULATED	3,000	60

* For quantities less than Minimum Order Quantity – contact distribution

NORTH AMERICA

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