

44107 Thermistor with FEP Sheath



FEP Sheath for Hostile Environments
5000 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
- 5000 Ohm Resistance @ 25 °C
- Interchangeability
- Good Long Term Stability
- High Sensitivity
- Thermally Conductive Epoxy Coating
- RoHS Compliance

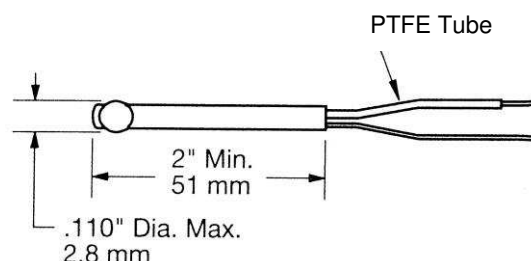
APPLICATIONS

- 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	5000
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 DESIGN



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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	482.200	-14	34.500	27	4.583	68	0.9380	109	0.2626
-54	447.900	-13	32.630	28	4.389	69	0.9063	110	0.2554
-53	416.300	-12	30.880	29	4.204	70	0.8757	111	0.2484
-52	387.100	-11	29.230	30	4.029	71	0.8464	112	0.2416
-51	360.200	-10	27.670	31	3.861	72	0.8183	113	0.2351
-50	335.300	-9	26.210	32	3.702	73	0.7912	114	0.2287
-49	312.300	-8	24.830	33	3.549	74	0.7651	115	0.2226
-48	291.000	-7	23.540	34	3.404	75	0.7400	116	0.2167
-47	271.300	-6	22.320	35	3.266	76	0.7159	117	0.2109
-46	253.000	-5	21.170	36	3.134	77	0.6927	118	0.2053
-45	236.200	-4	20.080	37	3.008	78	0.6703	119	0.1999
-44	220.500	-3	19.060	38	2.888	79	0.6488	120	0.1947
-43	205.900	-2	18.100	39	2.773	80	0.6281	121	0.1896
-42	192.500	-1	17.190	40	2.663	81	0.6082	122	0.1847
-41	180.000	0	16.330	41	2.559	82	0.5889	123	0.1799
-40	168.300	1	15.520	42	2.459	83	0.5704	124	0.1753
-39	157.500	2	14.750	43	2.363	84	0.5526	125	0.1708
-38	147.500	3	14.030	44	2.272	85	0.5354	126	0.1664
-37	138.200	4	13.340	45	2.184	86	0.5188	127	0.1622
-36	129.500	5	12.700	46	2.101	87	0.5028	128	0.1581
-35	121.400	6	12.090	47	2.021	88	0.4874	129	0.1541
-34	113.900	7	11.510	48	1.944	89	0.4726	130	0.1503
-33	106.900	8	10.960	49	1.871	90	0.4582	131	0.1465
-32	100.300	9	10.440	50	1.801	91	0.4444	132	0.1429
-31	94.220	10	9.951	51	1.734	92	0.4310	133	0.1394
-30	88.530	11	9.486	52	1.670	93	0.4182	134	0.1360
-29	83.220	12	9.046	53	1.608	94	0.4057	135	0.1326
-28	78.260	13	8.628	54	1.549	95	0.3937	136	0.1294
-27	73.620	14	8.232	55	1.493	96	0.3821	137	0.1263
-26	69.290	15	7.857	56	1.439	97	0.3709	138	0.1232
-25	65.240	16	7.500	57	1.387	98	0.3601	139	0.1203
-24	61.450	17	7.162	58	1.337	99	0.3497	140	0.1174
-23	57.900	18	6.841	59	1.290	100	0.3396	141	0.1146
-22	54.580	19	6.536	60	1.244	101	0.3298	142	0.1119
-21	51.470	20	6.247	61	1.200	102	0.3204	143	0.1092
-20	48.560	21	5.972	62	1.158	103	0.3113	144	0.1067
-19	45.830	22	5.710	63	1.117	104	0.3025	145	0.1042
-18	43.270	23	5.462	64	1.079	105	0.2940	146	0.1018
-17	40.860	24	5.225	65	1.0410	106	0.2857	147	0.0994
-16	38.610	25	5.000	66	1.0060	107	0.2778	148	0.0971
-15	36.490	26	4.787	67	0.9711	108	0.2701	149	0.0949
								150	0.0927

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ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
095406	44107 THERM, FEP ENCAPSULATED	5,000	60

* For quantities less than Minimum Order Quantity – contact distribution

NORTH AMERICA

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