

44106 Thermistor with FEP Sheath



FEP Sheath for Hostile Environments
10,000 ohm Resistance @ 25°C
Interchangeable ±0.2°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
- 10,000 Ohm Resistance @ 25°C
- Interchangeability
- Good Long Term Stability
- High Sensitivity
- Thermally Conductive Epoxy Coating
- RoHS Compliance

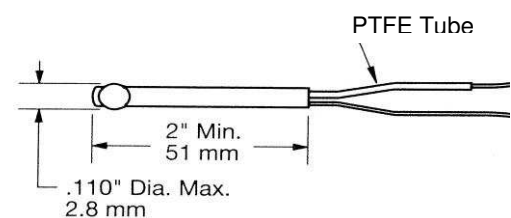
APPLICATIONS

- 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	10,000
Tolerance 0°C to 70°C	°C	± 0.2
Beta Value 25/85	K	3694
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	607.800	-14	58.010	27	9.227	68	2.1220	109	0.6403
-54	569.600	-13	55.170	28	8.867	69	2.0550	110	0.6235
-53	534.100	-12	52.480	29	8.523	70	1.9900	111	0.6073
-52	501.000	-11	49.940	30	8.194	71	1.9280	112	0.5916
-51	470.100	-10	47.540	31	7.880	72	1.8680	113	0.5764
-50	441.300	-9	45.270	32	7.579	73	1.8100	114	0.5616
-49	414.500	-8	43.110	33	7.291	74	1.7540	115	0.5473
-48	389.400	-7	41.070	34	7.016	75	1.7000	116	0.5334
-47	366.000	-6	39.140	35	6.752	76	1.6480	117	0.5199
-46	344.100	-5	37.310	36	6.500	77	1.5980	118	0.5068
-45	323.700	-4	35.570	37	6.258	78	1.5490	119	0.4941
-44	304.600	-3	33.930	38	6.026	79	1.5030	120	0.4818
-43	286.700	-2	32.370	39	5.805	80	1.4580	121	0.4698
-42	270.000	-1	30.890	40	5.592	81	1.4140	122	0.4582
-41	254.400	0	29.490	41	5.389	82	1.3720	123	0.4469
-40	239.800	1	28.150	42	5.193	83	1.3320	124	0.4359
-39	226.000	2	26.890	43	5.006	84	1.2930	125	0.4253
-38	213.200	3	25.690	44	4.827	85	1.2550	126	0.4149
-37	201.100	4	24.550	45	4.655	86	1.2180	127	0.4049
-36	189.800	5	23.460	46	4.489	87	1.1830	128	0.3951
-35	179.200	6	22.430	47	4.331	88	1.1490	129	0.3856
-34	169.300	7	21.450	48	4.179	89	1.1160	130	0.3764
-33	160.000	8	20.520	49	4.033	90	1.0840	131	0.3674
-32	151.200	9	19.630	50	3.893	91	1.0530	132	0.3587
-31	143.000	10	18.790	51	3.758	92	1.0230	133	0.3503
-30	135.200	11	17.980	52	3.629	93	0.9942	134	0.3420
-29	127.900	12	17.220	53	3.504	94	0.9663	135	0.3340
-28	121.100	13	16.490	54	3.385	95	0.9393	136	0.3263
-27	114.600	14	15.790	55	3.270	96	0.9132	137	0.3187
-26	108.600	15	15.130	56	3.160	97	0.8879	138	0.3113
-25	102.900	16	14.500	57	3.054	98	0.8634	139	0.3042
-24	97.490	17	13.900	58	2.952	99	0.8397	140	0.2972
-23	92.430	18	13.330	59	2.854	100	0.8168	141	0.2904
-22	87.660	19	12.790	60	2.760	101	0.7946	142	0.2838
-21	83.160	20	12.260	61	2.669	102	0.7731	143	0.2774
-20	78.910	21	11.770	62	2.582	103	0.7523	144	0.2712
-19	74.910	22	11.290	63	2.497	104	0.7321	145	0.2651
-18	71.130	23	10.840	64	2.417	105	0.7126	146	0.2592
-17	67.570	24	10.410	65	2.3390	106	0.6936	147	0.2534
-16	64.200	25	10.000	66	2.2640	107	0.6753	148	0.2478
-15	61.020	26	9.605	67	2.1910	108	0.6575	149	0.2423
								150	0.2370

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ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
095405	44106 THERM, FEP ENCAPSULATED	10,000	60

* For quantities less than Minimum Order Quantity – contact distribution

NORTH AMERICA

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