

44102 Thermistor with FEP Sheath



FEP Sheath for Hostile Environments
300 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
- 300 Ohm Resistance @ 25°C
- Interchangeability
- Good Long Term Stability
- High Sensitivity
- Thermally Conductive Epoxy Coating
- RoHS Compliance

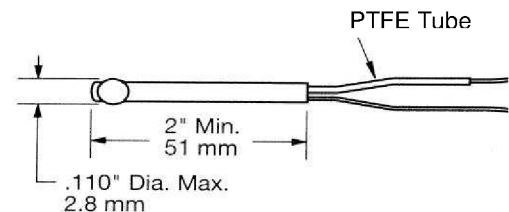
APPLICATIONS

- Harsh Chemical Environments
- Low 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	300
Tolerance 0°C to 70°C	°C	± 0.2
Beta Value 25/85	K	3150
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
-80	67.660	-35	3.975	10	0.5215	55	0.1145
-79	62.780	-34	3.772	11	0.5017	56	0.1112
-78	58.290	-33	3.580	12	0.4829	57	0.1080
-77	54.150	-32	3.400	13	0.4649	58	0.1050
-76	50.340	-31	3.230	14	0.4476	59	0.1020
-75	46.830	-30	3.069	15	0.4312	60	0.0991
-74	43.580	-29	2.918	16	0.4154	61	0.0963
-73	40.590	-28	2.775	17	0.4002	62	0.0937
-72	37.820	-27	2.640	18	0.3858	63	0.0911
-71	35.260	-26	2.512	19	0.3719	64	0.0886
-70	32.900	-25	2.392	20	0.3586	65	0.0861
-69	30.710	-24	2.278	21	0.3459	66	0.0838
-68	28.680	-23	2.170	22	0.3337	67	0.0815
-67	26.800	-22	2.068	23	0.3220	68	0.0793
-66	25.060	-21	1.972	24	0.3108	69	0.0772
-65	23.450	-20	1.880	25	0.3000	70	0.0752
-64	21.950	-19	1.794	26	0.2897	71	0.0732
-63	20.550	-18	1.712	27	0.2798	72	0.0713
-62	19.260	-17	1.634	28	0.2703	73	0.0694
-61	18.050	-16	1.561	29	0.2611	74	0.0676
-60	16.930	-15	1.491	30	0.2524	75	0.0659
-59	15.890	-14	1.424	31	0.2439	76	0.0642
-58	14.920	-13	1.361	32	0.2359	77	0.0625
-57	14.020	-12	1.302	33	0.2281	78	0.0609
-56	13.170	-11	1.245	34	0.2206	79	0.0594
-55	12.390	-10	1.191	35	0.2134	80	0.0579
-54	11.650	-9	1.140	36	0.2065	81	0.0565
-53	10.970	-8	1.091	37	0.1998	82	0.0551
-52	10.330	-7	1.045	38	0.1934	83	0.0537
-51	9.730	-6	1.001	39	0.1873	84	0.0524
-50	9.171	-5	0.959	40	0.1814	85	0.0511
-49	8.647	-4	0.919	41	0.1757	86	0.0499
-48	8.158	-3	0.881	42	0.1702	87	0.0487
-47	7.699	-2	0.845	43	0.1649	88	0.0475
-46	7.270	-1	0.810	44	0.1598	89	0.0464
-45	6.867	0	0.778	45	0.1549	90	0.0453
-44	6.489	1	0.746	46	0.1501	91	0.0442
-43	6.135	2	0.716	47	0.1456	92	0.0432
-42	5.803	3	0.688	48	0.1412	93	0.0421
-41	5.491	4	0.661	49	0.1370	94	0.0412
-40	5.198	5	0.635	50	0.1329	95	0.0402
-39	4.922	6	0.610	51	0.1289	96	0.0393
-38	4.663	7	0.586	52	0.1251	97	0.0384
-37	4.420	8	0.564	53	0.1215	98	0.0375
-36	4.191	9	0.542	54	0.1179	99	0.0367
						100	0.0358

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ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
095312	44102A THERM, FEP ENCAPSULATED	300	60

* For quantities less than Minimum Order Quantity – contact distribution

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