

55031 Precision Glass NTC Thermistor



- Excellent Long Term Stability
- Glass Hermetic Seal
- Use up to 200°C
- 10,000 ohm Resistance @ 25°C
- Interchangeable $\pm 0.1^\circ\text{C}$, 0°C to 70°C ,
- Pressed Disk Ceramic Sensor
- High sensitivity
- 0.095" (2.4 mm) Maximum Diameter
- 32 AWG, 2.5" (6.4 cm) long Gold Plated Dumet leads
- RoHS Compliant

DESCRIPTION

Moisture-proof Hermetic Glass Encapsulated Precision Interchangeable NTC Thermistor utilizing high stability pressed-disk ceramic sensor for general applications.

FEATURES

- Glass Hermetic Seal
- 10,000 Ohm Resistance @ 25°C
- 0.095" (2.4 mm) Maximum Diameter
- Interchangeability
- Excellent High Temperature Performance
- Excellent Long Term Stability
- High Sensitivity
- RoHS Compliance

APPLICATIONS

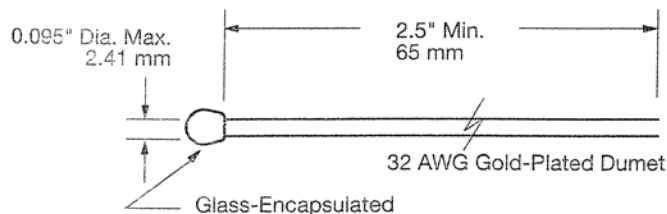
- High Moisture Applications
- Low to Mid Range Temperature Applications
- Drop in Replacement for 44000 Series Epoxy
- Tight Tolerance Instrumentation
- Use up to 200°C
- Applications Requiring Improved Stability
- Applications Requiring Sensing Small Changes in Temperature
- Allows use in Applications World-wide

PERFORMANCE SPECS

Parameter	Units	Value
Resistance @ 25°C	Ohms	10,000
Tolerance 0°C to 70°C	$^\circ\text{C}$	± 0.1
Beta Value 25/85	K	3694
Tolerance on Beta Value	%	0.4
Time response in air	Seconds	< 15
Dissipation Constant in air	mW/ $^\circ\text{C}$	1.5
Insulation Resistance (Min. of 100Mohms for 1 Sec.)	Volts	500

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MECHANICAL DETAILS



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

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ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
055110	55031 GEM THERM	10,000	200
055310	55031-BP (100 PCS) GEM THERM	10,000	200

* For quantities less than Minimum Order Quantity – contact distribution

NORTH AMERICA

Measurement Specialties, Inc.
910 Turnpike Road
Shrewsbury, MA 01545
Tel: 1-508-842-0516
Fax: 1-508-842-0342

Sales email:
temperature.sales.amer@meas-spec.com

EUROPE

Measurement Specialties, Inc
Ballybrit Business Park
Galway Ireland
Tel: +353-91-753238
Fax: +353-91-770789

Sales email:
temperature.sales.emea@meas-spec.com

ASIA

Measurement Specialties (China) Ltd.
No. 26 Langshan Road
Shenzhen High-Tech Park (North)
Nanshan District, Shenzhen 51807
China
Tel: +86 (0) 755 33305088
Fax: +86 (0) 755 33305099

Sales email:
temperature.sales.asia@meas-spec.com

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