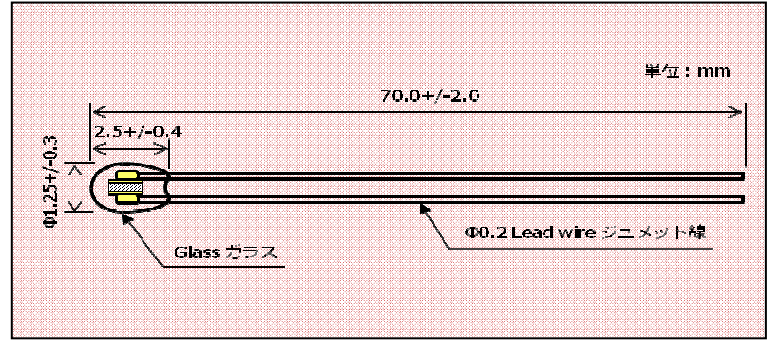
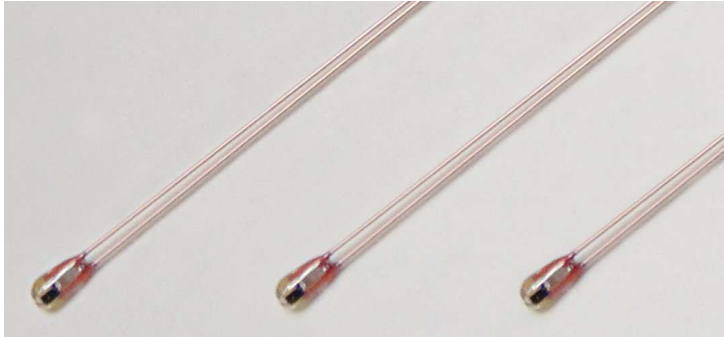


NT Thermistor

NT-4 サーミスタは、高耐熱、高感度のガラス封止タイプのサーミスタです。従来のガラス封止タイプに比べ小型、応答性に優れ、自動化生産による安定性から、非常に高い信頼性を備えた商品となっており、様々な用途に幅広くご利用いただけます。

The NT-4 thermistor with glass coating is superior in terms of fast response time and wide category temperature range. The NT-4 thermistor is smaller, has a faster response time compared to the existing glass coated type. Because of the high stability of the automated production system, the NT-4 thermistor has a high reliability and can be used for a wide variety of applications

外形寸法図/ External Dimensions



形名/ Product Name

103 NT-4 - R025 H34 G

① ② ③ ④ ⑤ ⑥

- ① ゼロ負荷抵抗値 Rated zero-power resistance (R25) ...103: $10 \times 10^3 \Omega$
- ② NTサーミスタ シリーズ NT thermistor
- ③ 抵抗値基準温度 Base temperature of resistance ...R025: 25°C
- ④ 抵抗値許容差 Tolerance of resistance ...H: 3%
- ⑤ B定数 有効数値2桁表記 First double digits of B value ...34: $B_{25/85}=3435K$
- ⑥ B定数許容差 Tolerance of B value ...G: 2%

用途/ Application

冷暖房機器、給湯器、電子レンジ、各種家電住設機器、ハイブリッド車、燃料電池車、各種自動車電装機器
 医療、防災、セキュリティ、OA機器
 その他高温高速検知
 HVAC equipment, water heater, home electric appliances, hybrid vehicle, fuel-cell vehicles, electric component for vehicle, disaster prevention equipment, security equipment, medical, OA equipment, etc.

定格/ Rating

No.	形名 Part NO.	定格ゼロ負荷抵抗値 ※1、※2 Rated zero-power resistance			B定数 ※3 B value			熱放散定数 Dissipation factor(mW/°C) Approx.	熱時定数 ※4 Thermal time constant(s) Approx.	定格電力 Rated Electricity (mW) at 25°C	使用温度範囲 Category temp. range(°C)
		温度 temperature (°C)	抵抗resistance (k Ω)	許容差 tolerance	温度 temperature (°C)	B定数 B value (K)	許容差 tolerance				
1	852NT-4-R050H34G	50	3.485	±3%	0/100	3450	±2%	0.8	6 (0.6)	4.0	-50~+300
2	103NT-4-R025H34G	25	10		25/85	3435					
3	103NT-4-R025H41G	25	10		25/85	4126					
4	493NT-4-R100H40G	100	3.3		0/100	3970					
5	503NT-4-R025H42G	25	50		25/85	4288					
6	104NT-4-R025H42G	25	100		25/85	4267					
7	104NT-4-R025H43G	25	100		25/85	4390					
8	204NT-4-R025H43G	25	200		25/85	4338					
9	234NT-4-R200H42G	200	1		100/200	4537					
10	504NT-4-R025H45G	25	500		25/85	4526					
11	105NT-4-R025H46G	25	1000		25/85	4608					

- ※1 Rated zero-power resistance at each temperature.
- ※2 Other resistance tolerance is also available, please ask us.
- ※3 B value: determined by rated zero-power resistance at each temperature.
- ※4 Time when thermistor reached 63.2% of the temperature difference. The value is measured in the air. (silicon oil)

抵抗-温度特性 TEMPERATURE VS RESISTANCE CHARACTERISTICS

Temp. (deg C)	852NT-4-R050H34G	103NT-4-R025H34G	103NT-4-R025H41G	493NT-4-R100H40G	503NT-4-R025H42G
	R50=3.485kΩ ±3% B25/85=3 450K ±2%	R25=10.0kΩ ±3% B25/85=3 435K ±2%	R25=10.0kΩ ±3% B25/85=4 126K ±2%	R100=3.3kΩ ±3% B0/100=3 970K ±2%	R25=50kΩ ±3% B25/85=4 288K ±2%
	R (kΩ)	R (kΩ)	R (kΩ)	R (kΩ)	R (kΩ)
-50	346.8	394.7	830.9	3376	3576
-40	187.8	214.8	406.8	1689	1817
-30	106.1	122.0	207.7	885.4	965.0
-20	62.42	72.04	110.3	484.4	533.5
-10	38.02	44.09	60.87	275.5	302.8
0	23.92	27.86	34.85	162.2	175.2
10	15.49	18.13	20.65	98.65	104.0
20	10.31	12.12	12.64	61.79	63.42
25	8.487	10.00	10.00	49.41	50.00
30	7.026	8.297	7.970	39.77	39.66
40	4.899	5.806	5.166	26.23	25.42
50	3.485	4.144	3.437	17.70	16.69
60	2.524	3.011	2.341	12.20	11.19
70	1.859	2.225	1.631	8.572	7.657
80	1.391	1.668	1.159	6.134	5.343
90	1.055	1.267	0.8396	4.464	3.795
100	0.8104	0.9754	0.6189	3.300	2.741
110	0.6300	0.7590	0.4637	2.475	2.012
120	0.4952	0.5920	0.3525	1.882	1.498
130	0.3916	0.4651	0.2717	1.448	1.130
140	0.3108	0.3679	0.2121	1.127	0.8635
150	0.2484	0.2937	0.1676	0.8873	0.6680
160	0.2000	0.2365	0.1339	0.7057	0.5225
170	0.1622	0.1919	0.1081	0.5667	0.4129
180	0.1325	0.1568	0.08811	0.4592	0.3296
190	0.1091	0.1290	0.07249	0.3753	0.2656
200	0.09036	0.1068	0.06015	0.3092	0.2158
210	0.07540	0.08901	0.05030	0.2567	0.1768
220	0.06329	0.07467	0.04239	0.2145	0.1459
230	0.05347	0.06300	0.03597	0.1805	0.1213
240	0.04543	0.05345	0.03072	0.1529	0.1016
250	0.03883	0.04558	0.02641	0.1303	0.08560
260	0.03337	0.03907	0.02285	0.1117	0.07261
270	0.02884	0.03366	0.01990	0.09624	0.06197
280	0.02506	0.02912	0.01743	0.08336	0.05319
290	0.02188	0.02531	0.01536	0.07256	0.04590
300	0.01919	0.02209	0.01361	0.06345	0.03981

Temp. (deg C)	104NT-4-R025H42G	104NT-4-R025H43G	204NT-4-R025H43G	234NT-4-R200H42G	504NT-4-R025H45G	105NT-4-R025H46G
	R25=100kΩ ±3% B25/85=4 287K ±2%	R25=100kΩ ±3% B25/85=4 390K ±2%	R25=200kΩ ±3% B25/85=4 338K ±2%	R200=1.00kΩ ±3% B100/200=4 537K ±2%	R25=500.0kΩ ±3% B25/85=4 526K ±2%	R25=1000kΩ ±3% B25/85=4 608K ±2%
	R (kΩ)	R (kΩ)	R (kΩ)	R (kΩ)	R (kΩ)	R (kΩ)
-50	8887	10090	19040	17900	52600	110900
-40	4275	4755	9061	8942	24850	52120
-30	2156	2353	4524	4633	12290	25610
-20	1136	1218	2362	2496	6333	13110
-10	623.2	657.0	1284	1393	3396	6979
0	354.6	368.1	724.5	804.8	1887	3849
10	208.8	213.5	423.0	479.2	1084	2195
20	126.9	127.8	254.9	293.6	642.5	1290
25	100.0	100.0	200.0	232.1	500.0	1000
30	79.33	78.78	158.0	184.7	391.7	780.2
40	50.90	49.90	100.6	119.0	245.2	484.7
50	33.45	32.42	65.72	78.46	157.3	308.4
60	22.48	21.54	43.89	52.84	103.1	200.7
70	15.43	14.63	29.93	36.30	69.11	133.5
80	10.80	10.13	20.81	25.39	47.24	90.54
90	7.690	7.141	14.73	18.07	32.87	62.55
100	5.569	5.122	10.61	13.06	23.27	43.96
110	4.097	3.735	7.761	9.586	16.75	31.42
120	3.058	2.763	5.759	7.130	12.23	22.78
130	2.313	2.072	4.333	5.374	9.051	16.75
140	1.770	1.574	3.301	4.098	6.787	12.48
150	1.371	1.210	2.547	3.161	5.153	9.418
160	1.074	0.9414	1.985	2.466	3.957	7.188
170	0.8501	0.7398	1.563	1.942	3.071	5.546
180	0.6793	0.5873	1.244	1.544	2.406	4.322
190	0.5476	0.4706	0.9993	1.238	1.903	3.402
200	0.4452	0.3804	0.8098	1.000	1.519	2.703
210	0.3650	0.3101	0.6614	0.8141	1.224	2.167
220	0.3016	0.2549	0.5442	0.6674	0.9937	1.750
230	0.2510	0.2110	0.4510	0.5508	0.8136	1.424
240	0.2104	0.1760	0.3765	0.4574	0.6712	1.168
250	0.1775	0.1478	0.3164	0.3821	0.5576	0.9643
260	0.1507	0.1250	0.2676	0.3210	0.4663	0.8019
270	0.1287	0.1063	0.2278	0.2712	0.3922	0.6712
280	0.1105	0.09101	0.1950	0.2302	0.3317	0.5651
290	0.09539	0.07830	0.1678	0.1964	0.2820	0.4785
300	0.08278	0.06772	0.1452	0.1683	0.2410	0.4074



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