



FEATURES

- 5K to 200K Ohms resistance @ +25°C
- Hermetically Sealed Package
- Proven Stability and Reliability
- Low Cost

APPLICATIONS

- Air conditioning systems
- Refrigeration control
- Assembly into probes for a wide variety of applications
- In environments where thermal shock and humidity are present
- Hot water boiler systems
- Sensor for engine temperature control

RADIAL GLASS NTC THERMISTORS

GENERAL DESCRIPTION

TE Connectivity offers a comprehensive range of radial glass NTC thermistors which are the perfect choice for applications that require high stability and performance in harsh environmental conditions. With an operating temperature range of -40 °C to +250°C, these NTC glass sensors are hermetically sealed and are suitable for elevated temperatures or applications where rapid thermal cycling are present. The series is available in the three different sizes and a range of different resistance tolerances.

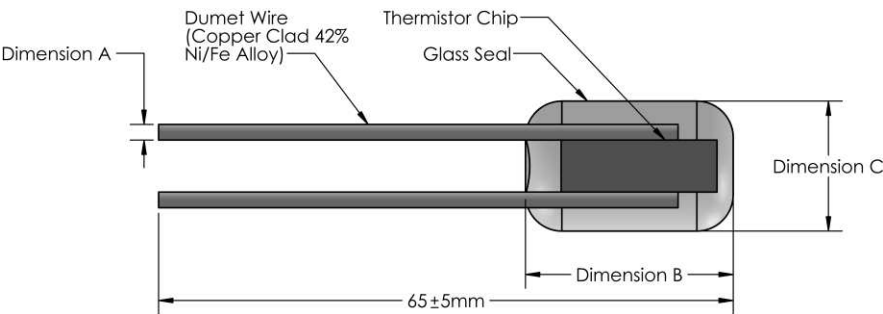
SPECIFICATION

- Hermetically sealed elements, glass encapsulation
- Available in 1% and 2% tolerances at +25°C
- High temperature devices for applications up to +250°C
- RoHS compliant

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PRODUCT OVERVIEW

Radial Glass NTC thermistor



	Dimensions			Dissipation Constant in still air @ +25°C	Time response (Still Air)	Time response (Stirred Oil)
	A	B	C			
Series A Thermistor	0.3mm	4mm Max	2.5mm Max	1.3 mW/°C	12 Seconds	1.1 Seconds
Series B Thermistor	0.2mm	3mm Max	1.5mm Max	0.8 mW/°C	5 Seconds	0.4 Seconds
Series C Thermistor	0.15mm	2mm Max	0.9mm Max	0.5 mW/°C	3 Seconds	0.2 Seconds

Select the Part number from the table and then select the bead size X and the tolerance band Y from the tables below.

Part Number	Resistance [Ω] @ +25°C	Beta Value 25/85	Beta Tolerance	Operating Temperature
GAG2K3348XY	2,000	3348	± 2%	-40° to +250°C
GAG2K3499XY	2,000	3499	± 2%	-40° to +250°C
GAG5K3976XY	5,000	3976	± 2%	-40° to +250°C
GAG10K3435XY	10,000	3435	± 2%	-40° to +250°C
GAG10K3694XY	10,000	3694	± 2%	-40° to +250°C
GAG10K3976XY	10,000	3976	± 2%	-40° to +250°C
GAG30K3942XY	30,000	3942	± 2%	-40° to +250°C
GAG50K3976XY	50,000	3976	± 2%	-40° to +250°C
GAG100K4000XY	100,000	4000	± 2%	-40° to +250°C
GAG200K4261XY	200,000	4261	± 3%	-40° to +250°C
GAG500K4261XY	500,000	4261	± 3%	-40° to +250°C

Bead size (X)

A	2.5mm Max
B	1.5mm Max
C	0.9mm Max

Res Tolerance bands (Y)

1	± 1%
5	± 2%

Reliability Data

Reliability Tests	Standard	Test Condition	Delta R
Storage in Dry Heat	IEC 60068-2-2	Storage temperature: +250°C Duration: 1000 hours	< 3%
Storage in Damp Heat	IEC 60068-2-3	Temperature of air is 50°C & RH 93% Duration: 56 days.	< 2%
Rapi Temperature Cycling	IEC 60068-2-14	Lower Test Temperature -55°C Upper Test Temperature +200°C Number of Cycles 1000	< 2%

RESISTANCE V TEMPERATURE CHARACTERISTICS

Beta value 25/85 (K)	3448	3499	3976			3435	3694	3942	4000	4261	
Nominal Resistance at +25°C. (Ω)	2000	2000	5000	10000	50000	10000	10000	30000	100000	200000	500000
Temperature (°C)											
-40	37790	43460	168500	337100	1611000	186000	261100	925000	3216000	7903000	18293000
-30	22160	24820	88660	177300	857200	110800	144000	498100	1721000	4007000	9632000
-20	13430	14690	48620	97240	474600	67790	82550	278300	955400	2134000	5253000
-10	8400	8980	27700	55400	272500	42540	49000	160900	548800	1186000	2960000
0	5401	5655	16340	32680	161800	27350	30030	96090	325500	684900	1720000
10	3566	3662	9956	19910	99070	18000	18960	59100	198900	409200	1029000
20	2412	2432	6247	12490	62390	12100	12300	37370	125000	252100	632000
25	2000	2000	5000	10000	50000	10000	10000	30000	100000	200000	500000
30	1668	1654	4028	8055.0	40320	8304	8179.9	24230	80530	159700	398000
40	1177	1149	2662	5325.0	26690	5809	5568.0	16090	53140	103700	256600
50	847.0	815.0	1801	3602.0	18060	4137	3871.0	10920	35860	68940	169000
60	620.0	588.0	1244	2488.0	12470	2996	2745.0	7568	24690	46790	113600
70	462.0	432.0	876.8	1753.0	8778	2204	1982.0	5343	17330	32380	77860
80	349.0	323.0	629.1	1258.0	6288	1645	1455.0	3838	12380	22810	54290
90	267.3	244.3	459.1	918.1	4578	1245	1086.0	2803	8996	16330	38490
100	207.5	187.6	340.3	680.6	3384	954.9	821.5	2078	6636	11870	27720
110	163.0	145.9	255.9	511.9	2536	741.1	630.2	1563	4966	8758	20250
120	129.6	114.8	195.1	390.2	1927	581.7	489.5	1191	3766	6545	14990
130	104.1	91.3	150.6	301.3	1482	461.4	384.7	919.2	2892	4952	11250
140	84.40	73.4	117.7	235.3	1153	369.7	305.6	717.5	2247	3790	8537
150	69.10	59.6	92.90	185.9	906.2	299.0	245.3	566.2	1766	2933	6554
160	57.10	48.8	74.20	148.3	719.8	244.0	198.8	451.3	1402	2292	5086
170	47.50	40.3	59.80	119.5	577.2	200.7	162.6	363.2	1123	1809	3986
180	39.90	33.6	48.60	97.20	467	166.5	134.1	295.0	908.6	1441	3154
190	33.70	28.2	39.90	79.70	381.1	139.1	111.5	241.6	741.3	1157	2517
200	28.70	23.8	32.90	65.90	313.4	117.0	93.30	199.4	609.7	936.4	2027
210	24.60	20.3	27.40	54.90	259.7	99.10	78.70	165.8	505.2	763.8	1645
220	21.10	17.3	23.00	46.00	216.7	84.40	66.80	138.9	421.7	627.5	1345
230	18.30	14.9	19.40	38.90	182	72.40	57.10	117.1	354.4	519	1107
240	16.00	12.9	16.50	33.00	153.9	62.40	49.10	99.4	299.8	432	918.2
250	14.00	11.3	14.10	28.30	130.9	54.00	42.40	84.9	255.1	361.8	766.3

RADIAL GLASS NTC THERMISTORS

Ordering Information

Model Number (1% Tolerance)	Ordering TEPN	Model Number (2% Tolerance)	Ordering TEPN
GAG2K3348A1	GAG2K3348A1	GAG2K3348A5	20033551-00
GAG2K3499A1	GAG2K3499A1	GAG2K3499A5	20033549-00
GAG5K3976A1	GAG5K3976A1	GAG5K3976A5	20033556-00
GAG10K3435A1	GAG10K3435A1	GAG10K3435A5	20033546-00
GAG10K3694A1	GAG10K3694A1	GAG10K3694A5	20033547-00
GAG10K3976A1	GAG10K3976A1	GAG10K3976A5	20033548-00
GAG30K3942A1	GAG30K3942A1	GAG30K3942A5	20033552-00
GAG50K3976A1	GAG50K3976A1	GAG50K3976A5	20033555-00
GAG100K4000A1	GAG100K4000A1	GAG100K4000A5	20033539-00
GAG200K4261A1	GAG200K4261A1	GAG200K4261A5	20033550-00
GAG500K4261A1	GAG500K4261A1	GAG500K4261A5	20033553-00
GAG2K3348B1	10220911-00	GAG2K3348B5	20033551-01
GAG2K3499B1	GAG2K3499B1	GAG2K3499B5	20033551-01
GAG5K3976B1	GAG5K3976B1	GAG5K3976B5	20033549-01
GAG10K3435B1	GAG10K3435B1	GAG10K3435B5	20033556-01
GAG10K3694B1	GAG10K3694B1	GAG10K3694B5	20033546-01
GAG10K3976B1	GAG10K3976B1	GAG10K3976B5	20033547-01
GAG30K3942B1	GAG30K3942B1	GAG30K3942B5	20033548-01
GAG50K3976B1	GAG50K3976B1	GAG50K3976B5	20033552-01
GAG100K4000B1	GAG100K4000B1	GAG100K4000B5	20033555-01
GAG200K4261B1	GAG200K4261B1	GAG200K4261B5	20033539-01
GAG500K4261B1	GAG500K4261B1	GAG500K4261B5	20033550-01
GAG2K3348C1	GAG2K3348C1	GAG2K3348C5	20033551-02
GAG2K3499C1	GAG2K3499C1	GAG2K3499C5	20033549-02
GAG5K3976C1	GAG5K3976C1	GAG5K3976C5	20033556-02
GAG10K3435C1	GAG10K3435C1	GAG10K3435C5	20033546-02
GAG10K3694C1	GAG10K3694C1	GAG10K3694C5	20033547-02
GAG10K3976C1	GAG10K3976C1	GAG10K3976C5	20033548-02
GAG30K3942C1	GAG30K3942C1	GAG30K3942C5	20033552-02
GAG50K3976C1	GAG50K3976C1	GAG50K3976C5	GAG50K3976C5
GAG100K4000C1	GAG100K4000C1	GAG100K4000C5	20033539-02
GAG200K4261C1	GAG200K4261C1	GAG200K4261C5	20033550-02
GAG500K4261C1	GAG500K4261C1	GAG500K4261C5	20033553-02

NORTH AMERICA
Tel +1 800 522 6752

EUROPE
Tel +31 73 624 6999

ASIA
Tel +86 0400 820 6015

te.com/sensors

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