Amphenol Advanced Sensors

NTC Thermistor Resistance - Temperature Data

Amphenol Thermometrics (UK) Ltd +44 (0) 1823 335200

Customer: Amphenol Generic Pipeclip

Amphenol Ref: JS9218

Thermistor resistance calculated from R / R25 = exp (A0 + A1/T + A2/T^2 + A3/T^3)
(T = Temperature in K = Temperature in °C + 273.15)

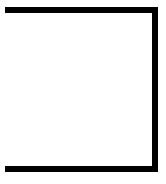
RvT Coefficients		**Reference Point**	
ID	Material 1	Temperature °C	**25**
Temp min °C	-40	Resistance ohm	10000
Temp max °C	155	R Tolerance +-%	**1**
A0	-1.420E+01		
A1	4.407E+03		
A2	-5.166E+03		
A3	-1.402E+07		
B tolerance ±%	0.75		

Data for information only. Please contact Amp
confirm specifications.

Temperature °C	R / R25	R nominal ohm	R minimum ohm	R maximum ohm	Resistance Tolerance - %	Resistance Tolerance + %	Temperature Tolerance + °C	Temperature Tolerance - °C	Alpha %/°C
-40	33.3562	333562.40	321653.63	345877.49	-3.6	3.7	0.5	-0.6	-6.60
-39	31.2316	312315.94	301314.41	323686.80	-3.5	3.6	0.5	-0.6	-6.56
-38	29.2551	292550.71	282383.84	303053.32	-3.5	3.6	0.5	-0.6	-6.52
-37	27.4155	274155.26	264756.60	283859.17	-3.4	3.5	0.5	-0.5	-6.47
-36	25.7027	257027.09	248335.76	265996.01	-3.4	3.5	0.5	-0.5	-6.43
-35	24.1072	241071.91	233032.08	249364.19	-3.3	3.4	0.5	-0.5	-6.39
-34	22.6203	226202.92	218763.40	233872.05	-3.3	3.4	0.5	-0.5	-6.35
-33	21.2340	212340.19	205454.02	219435.21	-3.2	3.3	0.5	-0.5	-6.30
-32	19.9410	199410.08	193034.17	205975.98	-3.2	3.3	0.5	-0.5	-6.26
-31	18.7345	187344.71	181439.49	193422.78	-3.2	3.2	0.5	-0.5	-6.22
-30	17.6082	176081.50	170610.62	181709.63	-3.1	3.2	0.5	-0.5	-6.18
-29	16.5563	165562.71	160492.78	170775.71	-3.1	3.1	0.5	-0.5	-6.14
-28	15.5735	155735.05	151035.37	160564.91	-3.0	3.1	0.5	-0.5	-6.10
-27	14.6549	146549.33	142191.67	151025.43	-3.0	3.1	0.5	-0.5	-6.06
-26	13.7960	137960.09	133918.48	142109.46	-2.9	3.0	0.5	-0.5	-6.02
-25	12.9925	129925.34	126175.88	133772.84	-2.9	3.0	0.5	-0.5	-5.98
-24	12.2406	122406.26	118926.95	125974.75	-2.8	2.9	0.5	-0.5	-5.94
-23	11.5367	115366.92	112137.50	118677.47	-2.8	2.9	0.5	-0.5	-5.90
-22	10.8774	108774.11	105775.92	111846.10	-2.8	2.8	0.5	-0.5	-5.87
-21	10.2597	102597.07	99812.89	105448.36	-2.7	2.8	0.5	-0.5	-5.83
-20	9.6807	96807.31	94221.29	99454.36	-2.7	2.7	0.5	-0.5	-5.79
-19	9.1378	91378.45	88975.96	93836.44	-2.6	2.7	0.5	-0.5	-5.75
-18	8.6286	86286.04	84053.57	88568.94	-2.6	2.6	0.5	-0.5	-5.72
-17	8.1507	81507.39	79432.50	83628.12	-2.5	2.6	0.4	-0.5	-5.68
-16	7.7022	77021.48	75092.66	78991.95	-2.5	2.6	0.4	-0.5	-5.64
-15	7.2809	72808.80	71015.42	74640.00	-2.5	2.5	0.4	-0.4	-5.61
-14	6.8851	68851.21	67183.47	70553.30	-2.4	2.5	0.4	-0.4	-5.57
-13	6.5132	65131.91	63580.74	66714.26	-2.4	2.4	0.4	-0.4	-5.54
-12	6.1635	61635.26	60192.27	63106.54	-2.3	2.4	0.4	-0.4	-5.50
-11	5.8347	58346.74	57004.18	59714.95	-2.3	2.3	0.4	-0.4	-5.47
-10	5.5253	55252.84	54003.53	56525.40	-2.3	2.3	0.4	-0.4	-5.43
-9	5.2341	52340.99	51178.30	53524.75	-2.2	2.3	0.4	-0.4	-5.40
-8	4.9600	49599.52	48517.29	50700.81	-2.2	2.2	0.4	-0.4	-5.36
-7	4.7018	47017.54	46010.09	48042.23	-2.1	2.2	0.4	-0.4	-5.33
-6	4.4585	44584.92	43646.98	45538.45	-2.1	2.1	0.4	-0.4	-5.30
-5	4.2292	42292.22	41418.92	43179.62	-2.1	2.1	0.4	-0.4	-5.26
-4	4.0131	40130.66	39317.46	40956.59	-2.0	2.1	0.4	-0.4	-5.23
-3	3.8092	38092.03	37334.74	38860.80	-2.0	2.0	0.4	-0.4	-5.20
-2	3.6169	36168.70	35463.42	36884.32	-1.9	2.0	0.4	-0.4	-5.16
-1	3.4354	34353.53	33696.65	35019.71	-1.9	1.9	0.4	-0.4	-5.13
0	3.2640	32639.86	32028.04	33260.04	-1.9	1.9	0.4	-0.4	-5.10
1	3.1022	31021.49	30451.62	31598.87	-1.8	1.9	0.4	-0.4	-5.07
2	2.9493	29492.62	28961.81	30030.15	-1.8	1.8	0.4	-0.4	-5.04
3	2.8048	28047.82	27553.39	28548.26	-1.8	1.8	0.4	-0.4	-5.01
4	2.6682	26682.02	26221.49	27147.93	-1.7	1.7	0.3	-0.4	-4.98
5	2.5391	25390.50	24961.55	25824.25	-1.7	1.7	0.3	-0.3	-4.95
6	2.4169	24168.83	23769.30	24572.62	-1.7	1.7	0.3	-0.3	-4.92
7	2.3013	23012.87	22640.77	23388.74	-1.6	1.6	0.3	-0.3	-4.89
8	2.1919	21918.73	21572.20	22268.60	-1.6	1.6	0.3	-0.3	-4.86
9	2.0883	20882.79	20560.10	21208.42	-1.5	1.6	0.3	-0.3	-4.83
10	1.9902	19901.65	19601.20	20204.69	-1.5	1.5	0.3	-0.3	-4.80
11	1.8972	18972.13	18692.42	19254.11	-1.5	1.5	0.3	-0.3	-4.77
12	1.8091	18091.25	17830.88	18353.58	-1.4	1.5	0.3	-0.3	-4.74
13	1.7256	17256.20	17013.88	17500.23	-1.4	1.4	0.3	-0.3	-4.71
14	1.6464	16464.37	16238.89	16691.32	-1.4	1.4	0.3	-0.3	-4.68
15	1.5713	15713.31	15503.54	15924.32	-1.3	1.3	0.3	-0.3	-4.66
16	1.5001	15000.69	14805.58	15196.84	-1.3	1.3	0.3	-0.3	-4.63
17	1.4324	14324.35	14142.94	14506.64	-1.3	1.3	0.3	-0.3	-4.60
18	1.3682	13682.27	13513.64	13851.63	-1.2	1.2	0.3	-0.3	-4.57
19	1.3073	13072.53	12915.83	13229.82	-1.2	1.2	0.3	-0.3	-4.55

20	1.2493	12493.34	12347.77	12639.36	-1.2	1.2	0.3	-0.3	-4.52
21	1.1943	11943.01	11807.85	12078.52	-1.1	1.1	0.3	-0.3	-4.49
22	1.1420	11419.96	11294.51	11545.65	-1.1	1.1	0.2	-0.2	-4.47
23	1.0923	10922.69	10806.31	11039.23	-1.1	1.1	0.2	-0.2	-4.44
24	1.0450	10449.81	10341.90	10557.80	-1.0	1.0	0.2	-0.2	-4.41
25	1.0000	10000.00	9900.00	10100.00	-1.0	1.0	0.2	-0.2	-4.39
26	0.9572	9572.01	9473.18	9670.90	-1.0	1.0	0.2	-0.2	-4.36
27	0.9165	9164.68	9067.10	9262.38	-1.1	1.1	0.2	-0.2	-4.34
28	0.8777	8776.90	8680.63	8873.35	-1.1	1.1	0.3	-0.3	-4.31
29	0.8408	8407.64	8312.74	8502.77	-1.1	1.1	0.3	-0.3	-4.29
30	0.8056	8055.92	7962.44	8149.68	-1.2	1.2	0.3	-0.3	-4.26
31	0.7721	7720.82	7628.80	7813.17	-1.2	1.2	0.3	-0.3	-4.24
32	0.7401	7401.48	7310.95	7492.38	-1.2	1.2	0.3	-0.3	-4.21
33	0.7097	7097.07	7008.05	7186.50	-1.3	1.3	0.3	-0.3	-4.19
34	0.6807	6806.82	6719.34	6894.75	-1.3	1.3	0.3	-0.3	-4.16
35	0.6530	6530.00	6444.07	6616.41	-1.3	1.3	0.3	-0.3	-4.14
36	0.6266	6265.92	6181.55	6350.81	-1.3	1.4	0.3	-0.3	-4.12
37	0.6014	6013.94	5931.14	6097.29	-1.4	1.4	0.3	-0.3	-4.09
38	0.5773	5773.45	5692.21	5855.25	-1.4	1.4	0.3	-0.3	-4.07
39	0.5544	5543.85	5464.18	5624.11	-1.4	1.4	0.4	-0.4	-4.05
40	0.5325	5324.61	5246.50	5403.33	-1.5	1.5	0.4	-0.4	-4.02
41	0.5115	5115.20	5038.65	5192.39	-1.5	1.5	0.4	-0.4	-4.00
42	0.4915	4915.14	4840.14	4990.81	-1.5	1.5	0.4	-0.4	-3.98
43	0.4724	4723.97	4650.50	4798.12	-1.6	1.6	0.4	-0.4	-3.96
44	0.4541	4541.24	4469.29	4613.88	-1.6	1.6	0.4	-0.4	-3.93
45	0.4367	4366.54	4296.09	4437.70	-1.6	1.6	0.4	-0.4	-3.91
46	0.4199	4199.48	4130.52	4269.17	-1.6	1.7	0.4	-0.4	-3.89
47	0.4040	4039.70	3972.21	4107.93	-1.7	1.7	0.4	-0.4	-3.87
48	0.3887	3886.83	3820.79	3953.62	-1.7	1.7	0.4	-0.4	-3.85
49	0.3741	3740.55	3675.93	3805.92	-1.7	1.7	0.5	-0.5	-3.83
50	0.3601	3600.53	3537.32	3664.51	-1.8	1.8	0.5	-0.5	-3.80
51	0.3466	3466.49	3404.66	3529.09	-1.8	1.8	0.5	-0.5	-3.78
52	0.3338	3338.14	3277.67	3399.37	-1.8	1.8	0.5	-0.5	-3.76
53	0.3215	3215.20	3156.07	3275.11	-1.8	1.9	0.5	-0.5	-3.74
54	0.3097	3097.43	3039.62	3156.02	-1.9	1.9	0.5	-0.5	-3.72
55	0.2985	2984.58	2928.06	3041.89	-1.9	1.9	0.5	-0.5	-3.70
56	0.2876	2876.43	2821.18	2932.47	-1.9	1.9	0.5	-0.5	-3.68
57	0.2773	2772.75	2718.74	2827.55	-1.9	2.0	0.5	-0.5	-3.66
58	0.2673	2673.34	2620.55	2726.93	-2.0	2.0	0.5	-0.6	-3.64
59	0.2578	2578.01	2526.41	2630.40	-2.0	2.0	0.6	-0.6	-3.62
60	0.2487	2486.57	2436.14	2537.78	-2.0	2.1	0.6	-0.6	-3.60
61	0.2399	2398.83	2349.55	2448.90	-2.1	2.1	0.6	-0.6	-3.58
62	0.2315	2314.64	2266.48	2363.59	-2.1	2.1	0.6	-0.6	-3.56
63	0.2234	2233.83	2186.77	2281.68	-2.1	2.1	0.6	-0.6	-3.54
64	0.2156	2156.26	2110.27	2203.02	-2.1	2.2	0.6	-0.6	-3.53
65	0.2082	2081.77	2036.84	2127.48	-2.2	2.2	0.6	-0.6	-3.51
66	0.2010	2010.23	1966.33	2054.91	-2.2	2.2	0.6	-0.6	-3.49
67	0.1942	1941.51	1898.61	1985.18	-2.2	2.2	0.6	-0.6	-3.47
68	0.1875	1875.49	1833.57	1918.17	-2.2	2.3	0.6	-0.7	-3.45
69	0.1812	1812.05	1771.09	1853.76	-2.3	2.3	0.7	-0.7	-3.43
70	0.1751	1751.07	1711.05	1791.84	-2.3	2.3	0.7	-0.7	-3.41
71	0.1692	1692.44	1653.34	1732.29	-2.3	2.4	0.7	-0.7	-3.40
72	0.1636	1636.08	1597.87	1675.02	-2.3	2.4	0.7	-0.7	-3.38
73	0.1582	1581.87	1544.54	1619.94	-2.4	2.4	0.7	-0.7	-3.36
74	0.1530	1529.72	1493.25	1566.93	-2.4	2.4	0.7	-0.7	-3.34
75	0.1480	1479.56	1443.92	1515.93	-2.4	2.5	0.7	-0.7	-3.33
76	0.1431	1431.29	1396.47	1466.83	-2.4	2.5	0.7	-0.8	-3.31
77	0.1385	1384.83	1350.81	1419.58	-2.5	2.5	0.7	-0.8	-3.29
78	0.1340	1340.11	1306.86	1374.07	-2.5	2.5	0.8	-0.8	-3.27
79	0.1297	1297.06	1264.57	1330.25	-2.5	2.6	0.8	-0.8	-3.26
80	0.1256	1255.60	1223.85	1288.05	-2.5	2.6	0.8	-0.8	-3.24
81	0.1216	1215.67	1184.64	1247.39	-2.6	2.6	0.8	-0.8	-3.22
82	0.1177	1177.20	1146.88	1208.21	-2.6	2.6	0.8	-0.8	-3.21
83	0.1140	1140.15	1110.51	1170.45	-2.6	2.7	0.8	-0.8	-3.19
84	0.1104	1104.43	1075.47	1134.06	-2.6	2.7	0.8	-0.8	-3.17
85	0.1070	1070.01	1041.71	1098.98	-2.6	2.7	0.8	-0.9	-3.16
86	0.1037	1036.83	1009.17	1065.16	-2.7	2.7	0.8	-0.9	-3.14
87	0.1005	1004.84	977.80	1032.53	-2.7	2.8	0.9	-0.9	-3.13
88	0.0974	974.00	947.56	1001.07	-2.7	2.8	0.9	-0.9	-3.11
89	0.0944	944.25	918.40	970.72	-2.7	2.8	0.9	-0.9	-3.09
90	0.0916	915.55	890.28	941.43	-2.8	2.8	0.9	-0.9	-3.08
91	0.0888	887.86	863.16	913.17	-2.8	2.9	0.9	-0.9	-3.06
92	0.0861	861.14	836.99	885.89	-2.8	2.9	0.9	-0.9	-3.05
93	0.0835	835.35	811.74	859.56	-2.8	2.9	0.9	-1.0	-3.03
94	0.0810	810.46	787.38	834.14	-2.8	2.9	0.9	-1.0	-3.02
95	0.0786	786.43	763.86	809.59	-2.9	2.9	1.0	-1.0	-3.00
96	0.0763	763.23	741.16	785.88	-2.9	3.0	1.0	-1.0	-2.99
97	0.0741	740.82	719.24	762.98	-2.9	3.0	1.0	-1.0	-2.97
98	0.0719	719.18	698.07	740.85	-2.9	3.0	1.0	-1.0	-2.96
99	0.0698	698.27	677.62	719.47	-3.0	3.0	1.0	-1.0	-2.94
100	0.0678	678.07	657.87	698.81	-3.0	3.1	1.0	-1.0	-2.93
101	0.0659	658.54	638.79	678.84	-3.0	3.1	1.0	-1.1	-2.91
102	0.0640	639.68	620.36	659.53	-3.0	3.1	1.0	-1.1	-2.90

103	0.0621	621.44	602.54	640.87	-3.0	3.1	1.1	-1.1	-2.89
104	0.0604	603.80	585.31	622.82	-3.1	3.1	1.1	-1.1	-2.87
105	0.0587	586.75	568.66	605.36	-3.1	3.2	1.1	-1.1	-2.86
106	0.0570	570.27	552.56	588.47	-3.1	3.2	1.1	-1.1	-2.84
107	0.0554	554.32	537.00	572.14	-3.1	3.2	1.1	-1.1	-2.83
108	0.0539	538.89	521.94	556.33	-3.1	3.2	1.1	-1.1	-2.82
109	0.0524	523.96	507.37	541.03	-3.2	3.3	1.1	-1.2	-2.80
110	0.0510	509.52	493.28	526.23	-3.2	3.3	1.1	-1.2	-2.79
111	0.0496	495.54	479.65	511.90	-3.2	3.3	1.2	-1.2	-2.78
112	0.0482	482.00	466.45	498.02	-3.2	3.3	1.2	-1.2	-2.76
113	0.0469	468.90	453.68	484.59	-3.2	3.3	1.2	-1.2	-2.75
114	0.0456	456.22	441.32	471.58	-3.3	3.4	1.2	-1.2	-2.74
115	0.0444	443.94	429.35	458.98	-3.3	3.4	1.2	-1.2	-2.72
116	0.0432	432.04	417.76	446.77	-3.3	3.4	1.2	-1.3	-2.71
117	0.0421	420.52	406.54	434.94	-3.3	3.4	1.2	-1.3	-2.70
118	0.0409	409.36	395.67	423.48	-3.3	3.5	1.2	-1.3	-2.68
119	0.0399	398.54	385.14	412.38	-3.4	3.5	1.3	-1.3	-2.67
120	0.0388	388.06	374.93	401.61	-3.4	3.5	1.3	-1.3	-2.66
121	0.0378	377.91	365.05	391.18	-3.4	3.5	1.3	-1.3	-2.65
122	0.0368	368.06	355.47	381.06	-3.4	3.5	1.3	-1.3	-2.63
123	0.0359	358.52	346.18	371.26	-3.4	3.6	1.3	-1.4	-2.62
124	0.0349	349.26	337.18	361.74	-3.5	3.6	1.3	-1.4	-2.61
125	0.0340	340.29	328.45	352.52	-3.5	3.6	1.3	-1.4	-2.60
126	0.0332	331.59	319.99	343.57	-3.5	3.6	1.4	-1.4	-2.58
127	0.0323	323.15	311.79	334.89	-3.5	3.6	1.4	-1.4	-2.57
128	0.0315	314.96	303.83	326.47	-3.5	3.7	1.4	-1.4	-2.56
129	0.0307	307.02	296.11	318.29	-3.6	3.7	1.4	-1.4	-2.55
130	0.0299	299.31	288.62	310.36	-3.6	3.7	1.4	-1.5	-2.54
131	0.0292	291.83	281.35	302.66	-3.6	3.7	1.4	-1.5	-2.53
132	0.0285	284.57	274.30	295.19	-3.6	3.7	1.4	-1.5	-2.51
133	0.0278	277.52	267.46	287.93	-3.6	3.8	1.4	-1.5	-2.50
134	0.0271	270.68	260.82	280.89	-3.6	3.8	1.5	-1.5	-2.49
135	0.0264	264.04	254.37	274.05	-3.7	3.8	1.5	-1.5	-2.48
136	0.0258	257.59	248.11	267.40	-3.7	3.8	1.5	-1.5	-2.47
137	0.0251	251.32	242.03	260.94	-3.7	3.8	1.5	-1.6	-2.46
138	0.0245	245.24	236.13	254.67	-3.7	3.8	1.5	-1.6	-2.45
139	0.0239	239.33	230.39	248.58	-3.7	3.9	1.5	-1.6	-2.43
140	0.0234	233.58	224.82	242.66	-3.8	3.9	1.5	-1.6	-2.42
141	0.0228	228.00	219.41	236.91	-3.8	3.9	1.6	-1.6	-2.41
142	0.0223	222.58	214.16	231.32	-3.8	3.9	1.6	-1.6	-2.40
143	0.0217	217.31	209.05	225.88	-3.8	3.9	1.6	-1.6	-2.39
144	0.0212	212.19	204.09	220.60	-3.8	4.0	1.6	-1.7	-2.38
145	0.0207	207.21	199.26	215.46	-3.8	4.0	1.6	-1.7	-2.37
146	0.0202	202.37	194.57	210.46	-3.9	4.0	1.6	-1.7	-2.36
147	0.0198	197.66	190.01	205.60	-3.9	4.0	1.6	-1.7	-2.35
148	0.0193	193.09	185.58	200.88	-3.9	4.0	1.7	-1.7	-2.34
149	0.0189	188.64	181.27	196.28	-3.9	4.1	1.7	-1.7	-2.33
150	0.0184	184.31	177.08	191.81	-3.9	4.1	1.7	-1.8	-2.32
151	0.0180	180.10	173.00	187.46	-3.9	4.1	1.7	-1.8	-2.31
152	0.0176	176.00	169.04	183.23	-4.0	4.1	1.7	-1.8	-2.30
153	0.0172	172.01	165.18	179.11	-4.0	4.1	1.7	-1.8	-2.29
154	0.0168	168.13	161.43	175.10	-4.0	4.1	1.8	-1.8	-2.28
155	0.0164	164.36	157.78	171.20	-4.0	4.2	1.8	-1.8	-2.27



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