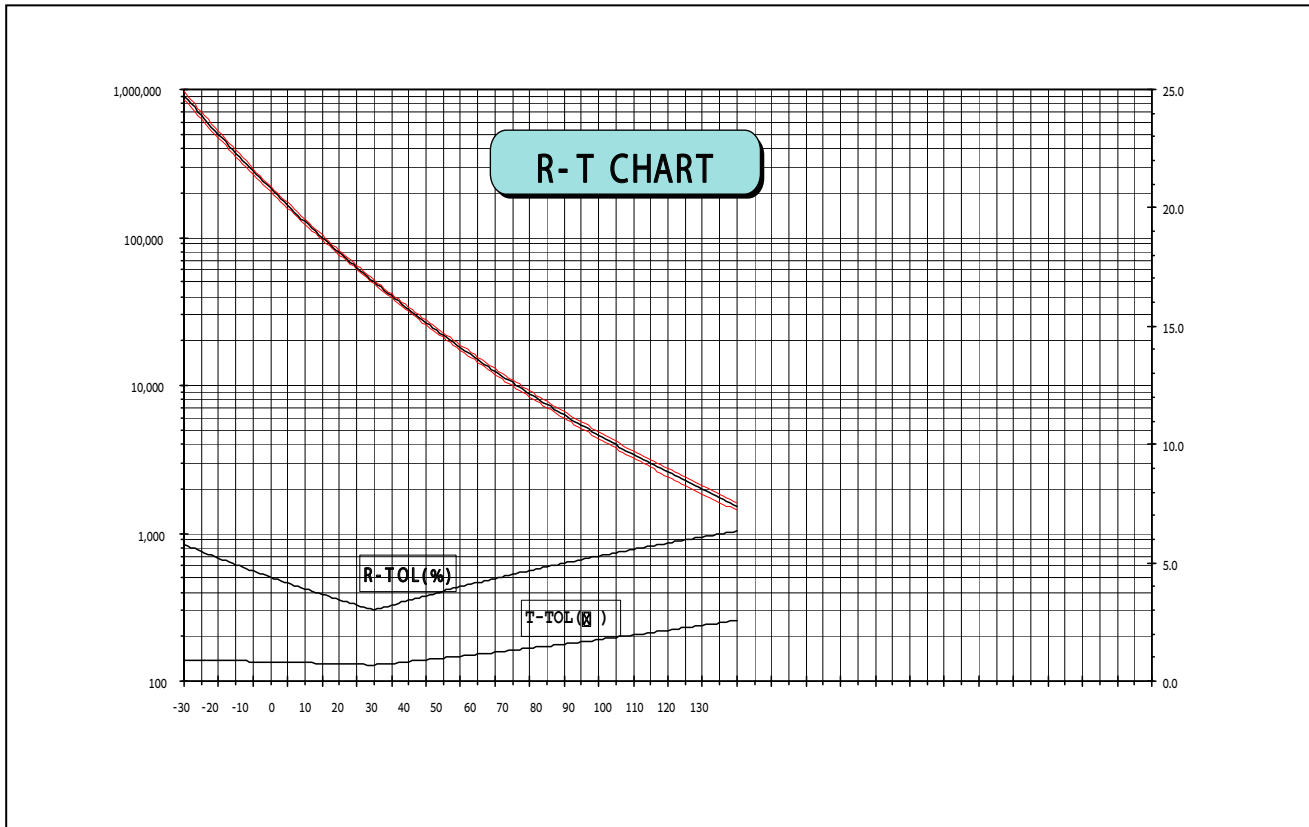


# Koolance SEN-AP002P Temperature Sensor Specifications

www.koolance.com

Center-Temp / R-Value 25.0°C/50000.00Ω  
 R-Tolerance of Center-Temp 3.00%  
 Test Condition Zero Power  
 β-Range (25/85)°C  
 β-Value 3970.0K  
 β-Tolerance 1.00%



L : 0.0°C=164,443.00Ω

M : 25.0°C=50,000.00Ω

H : 85.0°C=5,372.50Ω

TEMP. (°C)	RESISTANCE (Ω)			RESIST.-TOL. (%)		TEMP.-TOL. (°C)	
	MIN	CENTER	MAX	MAX	MIN	MAX	MIN
-30.0	857341.87	909876.45	964761.07	6.03	5.77	0.93	0.89
-29.0	805612.92	854440.47	905411.80	5.97	5.71	0.93	0.89
-28.0	757333.95	802734.09	850090.08	5.90	5.66	0.93	0.89
-27.0	712254.57	754484.49	798498.94	5.83	5.60	0.92	0.89
-26.0	670143.99	709440.30	750364.95	5.77	5.54	0.92	0.88
-25.0	630789.31	667369.81	705436.21	5.70	5.48	0.92	0.88
-24.0	593994.07	628059.34	663480.57	5.64	5.42	0.91	0.88
-23.0	559576.88	591311.73	624283.97	5.58	5.37	0.91	0.87

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-22.0	527370.21	556944.97	587648.91	5.51	5.31	0.91	0.87
-21.0	497219.26	524790.99	553393.12	5.45	5.25	0.90	0.87
-20.0	468980.88	494694.49	521348.31	5.39	5.20	0.90	0.87
-19.0	442522.69	466511.91	491358.97	5.33	5.14	0.89	0.86
-18.0	417722.18	440110.49	463281.40	5.26	5.09	0.89	0.86
-17.0	394465.94	415367.40	436982.71	5.20	5.03	0.89	0.86
-16.0	372648.94	392168.94	412339.98	5.14	4.98	0.88	0.85
-15.0	352173.84	370409.81	389239.44	5.08	4.92	0.88	0.85
-14.0	332950.42	349992.49	367575.74	5.02	4.87	0.88	0.85
-13.0	314895.02	330826.55	347251.30	4.96	4.82	0.87	0.85
-12.0	297929.99	312828.16	328175.70	4.91	4.76	0.87	0.84
-11.0	281983.28	295919.55	310265.10	4.85	4.71	0.86	0.84
-10.0	266987.99	280028.55	293441.72	4.79	4.66	0.86	0.83
-9.0	252881.96	265088.15	277633.42	4.73	4.60	0.85	0.83
-8.0	239607.42	251036.10	262773.20	4.68	4.55	0.85	0.83
-7.0	227110.67	237814.58	248798.86	4.62	4.50	0.85	0.82
-6.0	215341.75	225369.82	235652.60	4.56	4.45	0.84	0.82
-5.0	204254.18	213651.82	223280.70	4.51	4.40	0.84	0.82
-4.0	193804.71	202614.06	211633.20	4.45	4.35	0.83	0.81
-3.0	183953.02	192213.25	200663.64	4.40	4.30	0.83	0.81
-2.0	174661.59	182409.08	190328.77	4.34	4.25	0.82	0.81
-1.0	165895.44	173163.99	180588.33	4.29	4.20	0.82	0.80
0.0	157621.94	164443.00	171404.84	4.23	4.15	0.81	0.80
1.0	149810.68	156213.49	162743.35	4.18	4.10	0.81	0.79
2.0	142433.28	148445.04	154571.31	4.13	4.05	0.80	0.79
3.0	135463.24	141109.28	146858.35	4.07	4.00	0.80	0.79
4.0	128875.82	134179.72	139576.17	4.02	3.95	0.80	0.78
5.0	122647.91	127631.63	132698.32	3.97	3.90	0.79	0.78
6.0	116757.93	121441.93	126200.15	3.92	3.86	0.79	0.77
7.0	111185.68	115589.03	120058.61	3.87	3.81	0.78	0.77
8.0	105912.30	110052.77	114252.18	3.82	3.76	0.78	0.76
9.0	100920.12	104814.29	108760.76	3.77	3.72	0.77	0.76
10.0	96192.61	99855.97	103565.54	3.71	3.67	0.77	0.76
11.0	91714.32	95161.29	98648.94	3.66	3.62	0.76	0.75
12.0	87470.75	90714.81	93994.51	3.62	3.58	0.75	0.75
13.0	83448.33	86502.06	89586.85	3.57	3.53	0.75	0.74
14.0	79634.35	82509.52	85411.55	3.52	3.48	0.74	0.74
15.0	76016.88	78724.46	81455.11	3.47	3.44	0.74	0.73
16.0	72584.75	75135.02	77704.89	3.42	3.39	0.73	0.73
17.0	69327.47	71730.02	74149.03	3.37	3.35	0.73	0.72
18.0	66235.19	68499.00	70776.42	3.32	3.30	0.72	0.72
19.0	63298.69	65432.15	67576.64	3.28	3.26	0.72	0.71
20.0	60509.28	62520.25	64539.93	3.23	3.22	0.71	0.71
21.0	57858.81	59754.66	61657.09	3.18	3.17	0.70	0.70

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22.0	55339.63	57127.24	58919.52	3.14	3.13	0.70	0.70
23.0	52944.55	54630.37	56319.14	3.09	3.09	0.69	0.69
24.0	50666.79	52256.87	53848.35	3.05	3.04	0.69	0.69
25.0	48500.00	50000.00	51500.00	3.00	3.00	0.67	0.67
26.0	46397.45	47853.41	49310.65	3.05	3.04	0.70	0.70
27.0	44397.94	45811.14	47226.78	3.09	3.08	0.71	0.71
28.0	42495.91	43867.58	45242.76	3.13	3.13	0.73	0.72
29.0	40686.08	42017.43	43353.30	3.18	3.17	0.74	0.74
30.0	38963.51	40255.73	41553.38	3.22	3.21	0.76	0.75
31.0	37323.53	38577.79	39838.31	3.27	3.25	0.77	0.77
32.0	35761.77	36979.19	38203.64	3.31	3.29	0.79	0.78
33.0	34274.09	35455.77	36645.19	3.35	3.33	0.80	0.80
34.0	32856.58	34003.62	35159.02	3.40	3.37	0.82	0.81
35.0	31505.59	32619.02	33741.40	3.44	3.41	0.83	0.83
36.0	30217.65	31298.49	32388.82	3.48	3.45	0.85	0.84
37.0	28989.49	30038.74	31097.95	3.53	3.49	0.86	0.86
38.0	27818.04	28836.66	29865.68	3.57	3.53	0.88	0.87
39.0	26700.38	27689.32	28689.05	3.61	3.57	0.90	0.89
40.0	25633.78	26593.95	27565.25	3.65	3.61	0.91	0.90
41.0	24615.65	25547.93	26491.65	3.69	3.65	0.93	0.92
42.0	23643.53	24548.78	25465.75	3.74	3.69	0.94	0.93
43.0	22715.11	23594.17	24485.20	3.78	3.73	0.96	0.95
44.0	21828.22	22681.90	23547.76	3.82	3.76	0.98	0.96
45.0	20980.78	21809.87	22651.32	3.86	3.80	0.99	0.98
46.0	20170.84	20976.10	21793.87	3.90	3.84	1.01	0.99
47.0	19396.56	20178.73	20973.54	3.94	3.88	1.03	1.01
48.0	18656.19	19415.98	20188.52	3.98	3.91	1.04	1.02
49.0	17948.07	18686.18	19437.13	4.02	3.95	1.06	1.04
50.0	17270.64	17987.74	18717.75	4.06	3.99	1.08	1.06
51.0	16622.42	17319.16	18028.87	4.10	4.02	1.09	1.07
52.0	16002.00	16679.02	17369.04	4.14	4.06	1.11	1.09
53.0	15408.05	16065.96	16736.88	4.18	4.10	1.13	1.10
54.0	14839.33	15478.71	16131.11	4.21	4.13	1.14	1.12
55.0	14294.62	14916.05	15550.50	4.25	4.17	1.16	1.14
56.0	13772.80	14376.84	14993.87	4.29	4.20	1.18	1.15
57.0	13272.79	13859.98	14460.12	4.33	4.24	1.20	1.17
58.0	12793.59	13364.44	13948.20	4.37	4.27	1.21	1.19
59.0	12334.21	12889.23	13457.11	4.41	4.31	1.23	1.20
60.0	11893.75	12433.42	12985.89	4.44	4.34	1.25	1.22
61.0	11471.33	11996.13	12533.66	4.48	4.37	1.27	1.24
62.0	11066.13	11576.51	12099.54	4.52	4.41	1.28	1.25
63.0	10677.36	11173.77	11682.74	4.56	4.44	1.30	1.27
64.0	10304.28	10787.14	11282.47	4.59	4.48	1.32	1.29
65.0	9946.18	10415.91	10898.01	4.63	4.51	1.34	1.30

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66.0	9602.38	10059.38	10528.64	4.66	4.54	1.36	1.32
67.0	9272.25	9716.91	10173.72	4.70	4.58	1.38	1.34
68.0	8955.18	9387.86	9832.59	4.74	4.61	1.39	1.36
69.0	8650.59	9071.66	9504.67	4.77	4.64	1.41	1.37
70.0	8357.93	8767.75	9189.38	4.81	4.67	1.43	1.39
71.0	8076.68	8475.57	8886.16	4.84	4.71	1.45	1.41
72.0	7806.33	8194.64	8594.51	4.88	4.74	1.47	1.43
73.0	7546.42	7924.45	8313.93	4.91	4.77	1.49	1.44
74.0	7296.49	7664.55	8043.94	4.95	4.80	1.51	1.46
75.0	7056.11	7414.51	7784.10	4.98	4.83	1.52	1.48
76.0	6824.87	7173.89	7533.97	5.02	4.87	1.54	1.50
77.0	6602.38	6942.30	7293.15	5.05	4.90	1.56	1.51
78.0	6388.27	6719.36	7061.25	5.09	4.93	1.58	1.53
79.0	6182.19	6504.71	6837.90	5.12	4.96	1.60	1.55
80.0	5983.80	6298.00	6622.74	5.16	4.99	1.62	1.57
81.0	5792.77	6098.90	6415.43	5.19	5.02	1.64	1.59
82.0	5608.80	5907.09	6215.66	5.22	5.05	1.66	1.61
83.0	5431.59	5722.28	6023.10	5.26	5.08	1.68	1.62
84.0	5260.87	5544.17	5837.48	5.29	5.11	1.70	1.64
85.0	5096.36	5372.50	5658.50	5.32	5.14	1.72	1.66
86.0	4937.82	5207.00	5485.91	5.36	5.17	1.74	1.68
87.0	4785.00	5047.41	5319.43	5.39	5.20	1.76	1.70
88.0	4637.66	4893.52	5158.84	5.42	5.23	1.78	1.72
89.0	4495.59	4745.07	5003.88	5.45	5.26	1.80	1.74
90.0	4358.58	4601.86	4854.35	5.49	5.29	1.82	1.75
91.0	4226.41	4463.68	4710.02	5.52	5.32	1.84	1.77
92.0	4098.90	4330.33	4570.70	5.55	5.34	1.86	1.79
93.0	3975.87	4201.61	4436.17	5.58	5.37	1.88	1.81
94.0	3857.13	4077.35	4306.27	5.61	5.40	1.90	1.83
95.0	3742.51	3957.38	4180.81	5.65	5.43	1.92	1.85
96.0	3631.86	3841.51	4059.61	5.68	5.46	1.94	1.87
97.0	3525.02	3729.61	3942.52	5.71	5.49	1.97	1.89
98.0	3421.84	3621.51	3829.37	5.74	5.51	1.99	1.91
99.0	3322.19	3517.06	3720.02	5.77	5.54	2.01	1.93
100.0	3225.91	3416.13	3614.32	5.80	5.57	2.03	1.95
101.0	3132.89	3318.59	3512.13	5.83	5.60	2.05	1.97
102.0	3043.00	3224.30	3413.33	5.86	5.62	2.07	1.99
103.0	2956.12	3133.14	3317.78	5.89	5.65	2.09	2.01
104.0	2872.14	3045.00	3225.36	5.92	5.68	2.12	2.03
105.0	2790.94	2959.76	3135.96	5.95	5.70	2.14	2.05
106.0	2712.43	2877.31	3049.46	5.98	5.73	2.16	2.07
107.0	2636.50	2797.55	2965.76	6.01	5.76	2.18	2.09
108.0	2563.05	2720.38	2884.76	6.04	5.78	2.20	2.11
109.0	2492.00	2645.70	2806.35	6.07	5.81	2.22	2.13

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110.0	2423.26	2573.43	2730.45	6.10	5.84	2.25	2.15
111.0	2356.74	2503.48	2656.96	6.13	5.86	2.27	2.17
112.0	2292.35	2435.75	2585.79	6.16	5.89	2.29	2.19
113.0	2230.03	2370.18	2516.87	6.19	5.91	2.31	2.21
114.0	2169.70	2306.68	2450.10	6.22	5.94	2.34	2.23
115.0	2111.28	2245.18	2385.42	6.25	5.96	2.36	2.25
116.0	2054.70	2185.60	2322.75	6.28	5.99	2.38	2.27
117.0	1999.91	2127.89	2262.02	6.30	6.01	2.40	2.29
118.0	1946.83	2071.96	2203.16	6.33	6.04	2.43	2.31
119.0	1895.41	2017.77	2146.10	6.36	6.06	2.45	2.34
120.0	1845.58	1965.25	2090.79	6.39	6.09	2.47	2.36
121.0	1797.30	1914.33	2037.16	6.42	6.11	2.50	2.38
122.0	1750.50	1864.97	1985.15	6.44	6.14	2.52	2.40
123.0	1705.13	1817.11	1934.71	6.47	6.16	2.54	2.42
124.0	1661.15	1770.70	1885.78	6.50	6.19	2.57	2.44
125.0	1618.51	1725.69	1838.31	6.53	6.21	2.59	2.46
126.0	1577.15	1682.03	1792.26	6.55	6.24	2.61	2.49
127.0	1537.04	1639.67	1747.57	6.58	6.26	2.64	2.51
128.0	1498.14	1598.57	1704.20	6.61	6.28	2.66	2.53
129.0	1460.39	1558.69	1662.11	6.63	6.31	2.68	2.55
130.0	1423.77	1519.98	1621.24	6.66	6.33	2.71	2.57

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