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sales@sensorsci.com www.sensorsci.comPart Number **WM303E****Interchangeable Epoxy Coated Thermistor****Resistance at 25.00 °C is 30,000 ohm**
Tolerance at 25.00 °C is +/- 0.20 °C**Temperature vs Resistance Table**

Temperature		Resistance Nominal Ohm	Resistance		Resistance Tolerance +/- %	Temperature Tolerance +/- °C	Alpha % / °C
°F	°C		Minimum Ohm	Maximum Ohm			
-40.00	-40.00	884,446	830,685	942,063	6.51	1.00	-6.30
-31.00	-35.00	648,933	614,385	685,635	5.66	0.90	-6.10
-22.00	-30.00	480,701	458,559	504,029	4.85	0.80	-5.91
-13.00	-25.00	359,350	345,250	374,089	4.10	0.70	-5.73
-4.00	-20.00	270,993	262,119	280,201	3.40	0.60	-5.56
5.00	-15.00	206,080	200,603	211,724	2.74	0.50	-5.40
14.00	-10.00	157,980	154,708	161,329	2.12	0.40	-5.24
23.00	-5.00	122,043	120,196	123,921	1.54	0.30	-5.09
32.00	0.00	94,980	94,046	95,924	0.99	0.20	-4.94
41.00	5.00	74,445	73,733	75,164	0.97	0.20	-4.81
50.00	10.00	58,748	58,203	59,300	0.94	0.20	-4.67
59.00	15.00	46,666	46,245	47,092	0.91	0.20	-4.54
68.00	20.00	37,303	36,975	37,634	0.89	0.20	-4.42
77.00	25.00	30,000	29,743	30,259	0.86	0.20	-4.30
86.00	30.00	24,268	24,066	24,472	0.84	0.20	-4.19
95.00	35.00	19,741	19,581	19,903	0.82	0.20	-4.08
104.00	40.00	16,146	16,019	16,275	0.80	0.20	-3.97
113.00	45.00	13,275	13,173	13,378	0.78	0.20	-3.87
122.00	50.00	10,969	10,887	11,052	0.76	0.20	-3.77
131.00	55.00	9,108	9,042	9,175	0.74	0.20	-3.67
140.00	60.00	7,598	7,544	7,653	0.72	0.20	-3.58
149.00	65.00	6,367	6,323	6,412	0.70	0.20	-3.49
158.00	70.00	5,359	5,323	5,396	0.68	0.20	-3.41
167.00	75.00	4,529	4,470	4,590	1.34	0.40	-3.32
176.00	80.00	3,844	3,770	3,919	1.97	0.60	-3.24
185.00	85.00	3,275	3,193	3,359	2.57	0.80	-3.17
194.00	90.00	2,801	2,716	2,889	3.15	1.00	-3.09
203.00	95.00	2,404	2,319	2,493	3.70	1.20	-3.02
212.00	100.00	2,071	1,987	2,159	4.23	1.40	-2.95
221.00	105.00	1,790	1,710	1,875	4.74	1.60	-2.88
230.00	110.00	1,552	1,476	1,634	5.22	1.80	-2.82
239.00	115.00	1,351	1,279	1,428	5.69	2.00	-2.75
248.00	120.00	1,179	1,111	1,251	6.13	2.20	-2.69
257.00	125.00	1,032	969	1,100	6.56	2.40	-2.63
266.00	130.00	906	848	969	6.96	2.60	-2.57
275.00	135.00	798	744	856	7.35	2.80	-2.52
284.00	140.00	704	655	759	7.72	3.00	-2.46
293.00	145.00	624	578	674	8.08	3.20	-2.41
302.00	150.00	553	511	600	8.42	3.40	-2.36

Steinhart-Hart Equation Constants

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T vs R full10.xls
Rev 28-May-02A = 9.3238358E-04
B = 2.2150744E-04
C = 1.2607321E-07

Tolerances between 0.00 °C and 70.00 °C are +/-0.20 °C

Tolerances below 0.00 °C increase by an additional 0.02 °C / °C

Tolerances above 70.00 °C increase by an additional 0.04 °C / °C

Beta 0°C-50°C = 3811°K

Beta 25°C-85°C = 3942°K

Beta 25°C-125°C = 4000°K

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"E" Curve

19-Jun-02