



NTC Thermistors

RESISTANCE VS TEMPERATURE CONVERSION TABLES									
TEMP °C	CURVE 1			CURVE 2			CURVE 3		
	RATIO	MT ± %	NTC	RATIO	MT ± %	NTC	RATIO	MT ± %	NTC
-60	141.18	-	-	-	-	-	49.1	-	-
-55	96.811	4.5	7.4	53.474	6.3	7.0	36.6	-	-
-50	67.26	3.9	7.2	39.035	6.2	6.2	27.5	18.5	5.5
-40	33.727	3.3	6.7	21.473	5.8	5.8	16.1	15.4	5.3
-30	17.721	2.6	6.2	12.284	5.4	5.4	9.70	12.5	4.9
-20	9.714	2.1	5.8	7.283	4.7	5.1	6.05	9.9	4.5
-10	5.535	1.5	5.5	4.462	2.1	4.8	3.89	7.4	4.2
0	3.266	1.1	5.1	2.816	1.0	4.5	2.57	5.0	4.0
10	1.990	0.8	4.8	1.827	0.9	4.2	1.72	2.7	3.8
20	1.249	0.1	4.5	1.216	0.2	4.0	1.19	0.5	3.6
25	1.00	0.0	4.4	1.00	0.0	3.8	1.00	0.0	3.5
30	0.8055	0.2	4.3	0.8276	0.4	3.7	0.841	1.4	3.4
37	0.6015	0.6	4.1	0.6406	0.8	-	0.666	-	-
40	0.5325	0.7	4.0	0.5758	0.9	3.5	0.604	3.2	3.2
50	0.3602	1.1	3.9	0.4086	1.5	3.3	0.442	5.0	3.1
60	0.2488	1.3	3.6	0.2954	1.9	3.2	0.328	6.7	2.9
70	0.1753	1.8	3.4	0.2172	2.4	3.0	0.248	8.2	2.8
80	0.1257	2.1	3.2	0.1622	2.7	2.8	0.189	9.8	2.6
90	0.09174	2.3	3.1	0.1229	3.2	2.7	0.147	11.2	2.5
100	0.06798	2.6	2.9	0.09446	3.6	2.6	0.1148	12.6	-
110	0.05110	2.7	2.8	0.07350	4.0	2.4	0.09123	14.5	-
120	0.03894	3.2	2.7	0.05788	4.4	2.3	0.07326	16.0	-
125	0.03416	3.3	2.6	0.05158	-	2.3	0.06589	16.7	-
130	0.03005	3.4	2.5	0.04609	4.7	2.2	0.05940	17.5	-
140	0.02347	3.7	2.4	0.03708	5.0	2.1	0.04862	19.4	-
150	0.01853	4.0	2.3	0.03012	-	-	0.04014	20.9	-
155	0.01653	-	2.3	-	-	-	-	-	-
160	0.01478	-	2.2	-	-	-	-	-	-
TEMP °C	CURVE 4			CURVE 7			CURVE 8		
	RATIO	MT ± %	NTC	RATIO	MT ± %	NTC	RATIO	MT ± %	NTC
-60	-	-	-	185.100	-	-	-	-	-
-55	120.615	6.5	7.9	126.433	6.0	7.6	79.674	3.9	7.0
-50	82.767	6.1	7.4	87.123	5.0	7.3	56.614	3.5	6.7
-40	40.447	5.3	6.9	42.765	4.2	6.9	29.535	3.0	6.3
-30	20.690	4.3	6.5	21.873	2.9	6.5	16.042	2.4	5.9
-20	11.034	3.5	6.1	11.618	2.7	6.2	9.040	1.9	5.6
-10	6.113	2.6	5.7	6.390	2.1	5.8	5.269	1.4	5.2
0	3.507	1.8	5.4	3.629	1.4	5.5	3.167	1.0	4.9
10	2.078	1.0	5.1	2.123	0.9	5.2	1.958	0.5	4.7
20	1.267	0.2	4.8	1.277	0.2	5.0	1.243	0.1	4.4
25	1.00	0.0	4.7	1.00	0.0	4.8	1.00	0.0	4.3
30	0.7942	0.4	4.6	0.7880	0.4	4.7	0.8090	0.2	4.0
37	0.5814	1.0	4.4	0.5702	0.8	4.5	0.6070	-	-
40	0.5105	1.1	4.3	0.4981	0.9	4.5	0.5383	0.6	3.7
50	0.3359	1.8	4.1	0.3219	1.5	4.3	0.3657	1.0	3.6
60	0.2259	2.4	3.9	0.2124	1.9	4.1	0.2533	1.2	3.4
70	0.1550	2.9	3.7	0.1429	2.4	3.9	0.1786	1.6	3.2
80	0.1084	3.4	3.5	0.09790	2.7	3.7	0.1281	1.9	3.1
90	0.0771	3.9	3.3	0.06823	3.2	3.5	0.0933	2.1	2.9
100	0.0557	4.4	3.2	0.04832	3.6	3.4	0.06897	2.4	2.8
110	0.0408	4.9	3.0	0.03474	4.0	3.2	0.05167	2.6	2.7
120	0.0303	5.3	2.9	0.02533	4.4	3.1	0.03920	2.9	2.7
125	0.0263	5.5	2.9	0.02174	4.5	3.0	0.03430	3.0	2.6
130	0.0228	5.7	2.8	0.01872	4.7	3.0	0.03010	3.1	2.5
140	0.0173	6.0	2.7	0.01401	5.0	2.8	0.02337	3.4	2.4
150	0.0133	6.4	2.6	0.01601	5.5	2.7	0.01834	3.5	2.3

Resistance vs Temperature Conversion Tables



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NTC Thermistors

RESISTANCE VS TEMPERATURE CONVERSION TABLES									
TEMP °C	CURVE 9			CURVE 12			CURVE 13		
	RATIO	MT ± %	NTC	RATIO	MT ± %	NTC	RATIO	MT ± %	NTC
-60	-	-	-	265.0	-	-	824.0	-	-
-55	60.751	3.95	-	176.4	-	8.0	503.0	-	9.7
-50	44.102	3.90	6.31	119.0	-	7.8	312.0	-	9.4
-40	23.960	3.30	5.91	55.98	-	7.3	125.0	-	8.9
-30	13.516	2.65	5.5	27.45	-	6.9	53.0	-	8.4
-20	7.891	2.10	5.22	13.98	13.7	6.6	23.43	-	7.9
-10	4.755	1.50	4.92	7.375	11.7	6.2	10.87	-	7.5
0	2.949	1.10	4.60	4.018	9.9	5.9	5.25	13.2	7.1
10	1.879	0.6	4.4	2.256	8.2	5.6	2.635	10.9	6.7
20	1.226	0.1	4.2	1.303	6.6	5.4	1.370	8.7	6.4
25	1.00	0.0	4.0	1.00	5.9	5.2	1.00	-	6.2
30	0.8194	0.2	3.9	0.7723	5.2	5.1	0.7358	6.8	6.1
37	0.6558	0.6	3.8	0.5435	-	4.9	0.4850	-	5.9
40	0.5592	0.7	3.7	0.4690	3.7	4.9	0.4075	4.9	5.8
50	0.3893	1.1	3.5	0.2914	2.4	4.6	0.2322	3.2	5.5
60	0.2760	1.3	3.4	0.1849	1.1	4.4	0.1358	1.5	5.2
70	0.1990	1.8	3.2	0.1198	0.0	4.2	0.08146	0.0	5.0
80	0.1458	2.1	3.1	0.07902	1.0	4.1	0.05000	1.4	4.8
90	0.1084	2.3	2.9	0.05307	2.1	3.9	0.03137	2.8	4.6
100	0.08168	2.6	2.8	0.03624	3.1	3.7	0.02009	4.1	4.4
110	0.06235	2.7	2.6	0.02514	4.0	3.6	0.01311	5.2	4.2
120	0.04818	3.2	2.5	0.01770	4.9	3.4	0.008715	6.4	4.0
125	0.04253	3.3	-	0.01493	5.3	3.4	0.007151	7.0	3.9
130	0.03764	3.4	2.4	0.01264	5.8	3.3	0.005892	7.6	3.8
140	0.02972	3.7	2.3	0.00915	6.6	3.2	0.004048	8.6	3.7
150	0.02370	-	-	0.00670	7.3	3.0	0.002824	9.6	3.5
TEMP °C	CURVE 14			CURVE 17			NOTE: For 1 °C ratio tables, see pages 11 to 16		
	RATIO	MT ± %	NTC	RATIO	MT ± %	NTC			
-60	43.0	-	-	-	-	-			
-55	31.9	-	-	-	-	-			
-50	24.3	18.5	5.6	72.50	5.6	7.5			
-40	14.4	15.4	4.9	36.09	4.8	6.9			
-30	8.93	12.5	4.5	18.82	4.2	6.4			
-20	5.69	9.9	4.4	10.23	3.6	6.0			
-10	3.68	7.4	4.3	5.767	2.9	5.7			
0	2.45	5.0	3.9	3.363	2.2	5.3			
10	1.68	2.7	3.6	2.024	1.7	5.0			
20	1.18	0.5	3.4	1.256	1.4	4.7			
25	1.00	0.0	3.1	1.00	0.0	4.5			
30	0.854	1.4	3.0	0.8013	1.3	4.4			
37	0.689	-	-	0.5973	1.7	4.3			
40	0.628	3.2	2.9	0.5241	1.9	4.2			
50	0.464	5.0	2.8	0.3507	2.4	4.0			
60	0.350	6.7	2.7	0.2400	2.5	3.7			
70	0.267	8.2	2.6	0.1677	2.6	3.5			
80	0.208	9.8	2.5	0.1194	2.7	3.4			
90	0.163	11.2	2.4	0.08652	2.8	3.2			
100	0.130	12.6	2.3	0.06370	2.9	3.0			
110	0.105	-	-	0.04761	3.0	2.8			
120	0.085	-	-	0.03610	3.1	2.72			
125	0.077	-	-	0.03160	3.2	2.64			
130	0.070	-	-	0.02774	3.3	2.58			
140	0.058	-	-	0.02158	3.5	2.46			
150	0.048	-	-	0.01698	3.6	2.37			