



NTC Thermistor RT curves

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INTERCHANGEABLE BetaCURVE R – T SPECIFICATION

.1K1A1

.3K1A1

1K2A1

100 Ohms @ 25°C ± 0.2° -20 to 50°C

300 Ohms @ 25°C ± 0.2° -20 to 50°C

1,000 Ohms @ 25°C ± 0.2° 0 - 70°C

Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)
-80	16,921	0	256.3	71	24.10	-80	50,763	0	769.0	71	72.3	-80	233,516	0	2,691	71	224.5
-79	15,824	1	246.2	72	23.46	-79	47,473	1	738.6	72	70.4	-79	217,298	1	2,579	72	218.1
-78	14,806	2	236.5	73	22.83	-78	44,417	2	709.5	73	68.5	-78	202,147	2	2,472	73	212.0
-77	13,859	3	227.3	74	22.23	-77	41,576	3	681.8	74	66.7	-77	188,227	3	2,371	74	206.1
-76	12,978	4	218.4	75	21.64	-76	38,935	4	655.3	75	64.9	-76	175,258	4	2,274	75	200.4
-75	12,159	5	210.0	76	21.07	-75	36,477	5	630.0	76	63.2	-75	163,454	5	2,182	76	194.9
-74	11,397	6	201.9	77	20.52	-74	34,190	6	605.8	77	61.6	-74	152,435	6	2,094	77	189.5
-73	10,687	7	194.2	78	19.98	-73	32,060	7	582.7	78	60.0	-73	142,234	7	2,009	78	184.3
-72	10,025	8	186.8	79	19.47	-72	30,076	8	560.5	79	58.4	-72	132,779	8	1,929	79	179.3
-71	9,409	9	179.8	80	18.97	-71	28,227	9	539.4	80	56.9	-71	124,017	9	1,853	80	174.5
-70	8,834	10	173.0	81	18.48	-70	26,503	10	519.1	81	55.4	-70	115,888	10	1,780	81	169.8
-69	8,298	11	166.6	82	18.01	-69	24,895	11	499.7	82	54.0	-69	108,347	11	1,710	82	165.2
-68	7,798	12	160.4	83	17.55	-68	23,394	12	481.2	83	52.7	-68	101,343	12	1,643	83	160.8
-67	7,331	13	154.5	84	17.11	-67	21,993	13	463.4	84	51.3	-67	94,837	13	1,579	84	156.6
-66	6,895	14	148.8	85	16.68	-66	20,684	14	446.4	85	50.0	-66	88,793	14	1,519	85	152.4
-65	6,487	15	143.4	86	16.26	-65	19,461	15	430.1	86	48.8	-65	83,171	15	1,460	86	148.4
-64	6,106	16	138.2	87	15.86	-64	18,318	16	414.5	87	47.6	-64	77,942	16	1,405	87	144.6
-63	5,750	17	133.2	88	15.47	-63	17,249	17	399.6	88	46.4	-63	73,075	17	1,351	88	140.8
-62	5,416	18	128.4	89	15.09	-62	16,248	18	385.2	89	45.3	-62	68,544	18	1,300	89	137.2
-61	5,104	19	123.8	90	14.72	-61	15,312	19	371.5	90	44.1	-61	64,321	19	1,252	90	133.6
-60	4,812	20	119.4	91	14.36	-60	14,436	20	358.3	91	43.1	-60	60,386	20	1,205	91	130.2
-59	4,538	21	115.2	92	14.01	-59	13,614	21	345.7	92	42.0	-59	56,717	21	1,160	92	126.9
-58	4,282	22	111.2	93	13.67	-58	12,845	22	333.5	93	41.0	-58	53,294	22	1,118	93	123.7
-57	4,041	23	107.3	94	13.34	-57	12,123	23	321.9	94	40.0	-57	50,099	23	1,077	94	120.6
-56	3,816	24	103.6	95	13.02	-56	11,447	24	310.7	95	39.1	-56	47,116	24	1,038	95	117.5
-55	3,604	25	100.0	96	12.71	-55	10,812	25	300.0	96	38.1	-55	44,329	25	1,000	96	114.6
-54	3,405	26	96.57	97	12.41	-54	10,216	26	289.7	97	37.2	-54	41,725	26	964.0	97	111.7
-53	3,219	27	93.27	98	12.12	-53	9,656	27	279.8	98	36.4	-53	39,289	27	929.5	98	109.0
-52	3,044	28	90.11	99	11.84	-52	9,131	28	270.3	99	35.5	-52	37,012	28	896.3	99	106.3
-51	2,879	29	87.07	100	11.56	-51	8,637	29	261.2	100	34.7	-51	34,881	29	864.6	100	103.7
-50	2,724	30	84.15			-50	8,173	30	252.4			-50	32,886	30	834.2	101	101.2
-49	2,579	31	81.34			-49	7,737	31	244.0			-49	31,016	31	804.9	102	98.7
-48	2,442	32	78.64			-48	7,326	32	235.9			-48	29,266	32	776.9	103	96.3
-47	2,313	33	76.04			-47	6,940	33	228.1			-47	27,624	33	750.0	104	94.0
-46	2,192	34	73.54			-46	6,576	34	220.6			-46	26,085	34	724.1	105	91.7
-45	2,078	35	71.14			-45	6,234	35	213.4			-45	24,642	35	699.3	106	89.6
-44	1,970	36	68.83			-44	5,911	36	206.5			-44	23,286	36	675.5	107	87.4
-43	1,869	37	66.61			-43	5,607	37	199.8			-43	22,014	37	652.6	108	85.4
-42	1,773	38	64.47			-42	5,320	38	193.4			-42	20,819	38	630.6	109	83.4
-41	1,683	39	62.41			-41	5,050	39	187.2			-41	19,697	39	609.5	110	81.4
-40	1,598	40	60.43			-40	4,795	40	181.3			-40	18,641	40	589.2	111	79.5
-39	1,518	41	58.52			-39	4,554	41	175.5			-39	17,649	41	569.6	112	77.7
-38	1,442	42	56.68			-38	4,327	42	170.0			-38	16,716	42	550.8	113	75.9
-37	1,371	43	54.91			-37	4,113	43	164.7			-37	15,837	43	532.8	114	74.2
-36	1,303	44	53.20			-36	3,910	44	159.6			-36	15,010	44	515.4	115	72.5
-35	1,240	45	51.55			-35	3,719	45	154.7			-35	14,231	45	498.7	116	70.8
-34	1,179	46	49.97			-34	3,538	46	149.9			-34	13,498	46	482.6	117	69.2
-33	1,122	47	48.44			-33	3,367	47	145.3			-33	12,806	47	467.1	118	67.7
-32	1,068	48	46.96			-32	3,205	48	140.9			-32	12,154	48	452.2	119	66.1
-31	1,017	49	45.54			-31	3,052	49	136.6			-31	11,540	49	437.8	120	64.7
-30	968.9	50	44.17			-30	2,907	50	132.5			-30	10,960	50	424.0	121	63.2
-29	923.1	51	42.85			-29	2,769	51	128.5			-29	10,412	51	410.7	122	61.8
-28	879.8	52	41.57			-28	2,639	52	124.7			-28	9,896	52	397.8	123	60.5
-27	838.8	53	40.34			-27	2,516	53	121.0			-27	9,408	53	385.5	124	59.2
-26	799.9	54	39.15			-26	2,400	54	117.5			-26	8,947	54	373.5	125	57.9
-25	763.0	55	38.00			-25	2,289	55	114.0			-25	8,511	55	362.0	126	56.6
-24	728.1	56	36.89			-24	2,184	56	110.7			-24	8,100	56	351.0	127	55.4
-23	694.9	57	35.82			-23	2,085	57	107.5			-23	7,709	57	340.3	128	54.2
-22	663.5	58	34.79			-22	1,990	58	104.4			-22	7,341	58	330.0	129	53.0
-21	633.6	59	33.79			-21	1,901	59	101.4			-21	6,992	59	320.0	130	51.9
-20	605.3	60	32.83			-20	1,816	60	98.5			-20	6,662	60	310.4	131	50.8
-19	578.4	61	31.89			-19	1,735	61	95.7			-19	6,350	61	301.2	132	49.7
-18	552.8	62	30.99			-18	1,659	62	93.0			-18	6,053	62	292.3	133	48.7
-17	528.6	63	30.12			-17	1,586	63	90.4			-17	5,773	63	283.6	134	47.7
-16	505.5	64	29.28			-16	1,516	64	87.8			-16	5,507	64	275.3	135	46.7
-15	483.5	65	28.46			-15	1,451	65	85.4			-15	5,255	65	267.3	136	45.7
-14	462.7	66	27.68			-14	1,388	66	83.0			-14	5,016	66	259.5	137	44.8
-13	442.8	67	26.91			-13	1,328	67	80.7			-13	4,789	67	252.0	138	43.9
-12	423.9	68	26.18			-12	1,272	68	78.5			-12	4,574	68	244.8	139	43.0
-11	406.0	69	25.46			-11	1,218	69	76.4			-11	4,369	69	237.8	140	42.1
-10	388.8	70	24.77			-10	1,167	70	74.3			-10	4,175	70	231.0	141	41.2
-9	372.6					-9	1,118					-9	3,991			142	40.4
-8	357.0					-8	1,071					-8	3,816			143	39.6
-7	342.2					-7	1,027					-7	3,649			144	38.8
-6	328.2					-6	984.5					-6	3,491			145	38.0
-5	314.7					-5	944.2					-5	3,341			146	37.3
-4	301.9					-4	905.8					-4	3,198			147	36.5
-3	289.7					-3	869.1					-3	3,061			148	35.8
-2	278.1					-2	834.2					-2	2,932			149	35.1
-1	266.9					-1	800.8					-1	2,808			150	34.4

NOTE: RT-Tables also apply for BetaCURVE, Mini-BetaCURVE and 2 & 3 milliwatt series

INTERCHANGEABLE BetaCURVE R – T SPECIFICATION

1K7A1

2K3A1B

2.2K3A1B

1,000 Ohms @ 25°C ± 0.2° 0 - 70°C

2,000 Ohms @ 25°C ± 0.2° 0 - 70°C

2,252 Ohms @ 25°C ± 0.2° 0 - 70°C

Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)
-80		0	2.825	71	209.6	-80	144.351	0	6,530.3	71	338.60	-80	1,643,356	0	7,353.0
-79		1	2.702	72	203.5	-79	1,321,342	1	6,206.3	72	327.33	-79	1,503,707	1	6,988.1
-78		2	2.585	73	197.5	-78	1,210,414	2	5,900.3	73	316.49	-78	1,376,943	2	6,643.4
-77		3	2.473	74	191.8	-77	1,109,594	3	5,611.1	74	306.07	-77	1,261,723	3	6,317.8
-76		4	2.367	75	186.2	-76	1,017,816	4	5,337.7	75	296.03	-76	1,156,930	4	6,010.0
-75		5	2.266	76	180.9	-75	934,245	5	5,079.2	76	286.38	-75	1,061,539	5	5,719.7
-74		6	2.170	77	175.7	-74	858,099	6	4,834.7	77	277.10	-74	974,660	6	5,443.7
-73		7	2.079	78	170.7	-73	788,647	7	4,603.4	78	268.16	-73	893,222	7	5,183.2
-72		8	1.992	79	165.8	-72	725,287	8	4,384.5	79	259.55	-72	823,248	8	4,936.8
-71		9	1.909	80	161.2	-71	667,436	9	4,177.3	80	251.26	-71	757,339	9	4,703.3
-70		10	1.830	81	156.6	-70	614,575	10	3,980.9	81	243.28	-70	697,132	10	4,482.3
-69		11	1.755	82	152.3	-69	566,242	11	3,794.9	82	235.17	-69	642,127	11	4,272.9
-68		12	1.683	83	148.0	-68	522,033	12	3,618.6	83	228.17	-68	591,821	12	4,074.5
-67		13	1.615	84	144.0	-67	481,566	13	3,451.6	84	221.04	-67	545,777	13	3,886.4
-66		14	1.549	85	140.0	-66	444,506	14	3,293.2	85	214.15	-66	503,637	14	3,707.9
-65		15	1.487	86	136.2	-65	410,531	15	3,142.9	86	207.52	-65	465,020	15	3,538.8
-64		16	1.428	87	132.5	-64	379,380	16	3,000.3	87	201.12	-64	429,620	16	3,378.3
-63		17	1.371	88	128.9	-63	350,786	17	2,865.1	88	194.96	-63	397,149	17	3,225.9
-62		18	1.317	89	125.4	-62	324,544	18	2,736.6	89	189.01	-62	367,340	18	3,081.3
-61		19	1.265	90	122	-61	300,425	19	2,614.6	90	183.27	-61	339,971	19	2,939.5
-60		20	1.216	91	118.8	-60	278,258	20	2,498.8	91	177.73	-60	314,815	20	2,813.6
-59		21	1.169	92	115.6	-59	257,873	21	2,388.7	92	172.39	-59	291,688	21	2,689.6
-58		22	1.124	93	112.6	-58	239,106	22	2,284.0	93	167.24	-58	270,405	22	2,571.8
-57		23	1.081	94	109.6	-57	221,830	23	2,184.5	94	162.26	-57	250,815	23	2,459.8
-56		24	1.039	95	106.7	-56	205,913	24	2,090.0	95	157.82	-56	232,771	24	2,353.3
-55	54,143	25	1,000	96	104.0	-55	191,239	25	2,000.0	96	152.82	-55	216,145	25	2,252.0
-54	50,785	26	962.3	97	101.3	-54	177,703	26	1,914.4	97	148.34	-54	200,808	26	2,155.6
-53	47,657	27	926.2	98	98.7	-53	165,213	27	1,832.9	98	144.01	-53	186,660	27	2,063.9
-52	44,741	28	891.7	99	96.1	-52	153,681	28	1,755.4	99	139.83	-52	173,602	28	1,976.6
-51	42,022	29	858.7	100	93.7	-51	143,024	29	1,681.5	100	135.79	-51	161,538	29	1,893.4
-50	39,486	30	827.0	101	91.3	-50	133,177	30	1,611.2	101	131.89	-50	150,395	30	1,814.2
-49	37,119	31	796.7	102	89.0	-49	124,068	31	1,544.1	102	128.12	-49	140,087	31	1,738.3
-48	34,908	32	767.6	103	86.8	-48	115,640	32	1,480.3	103	124.47	-48	130,553	32	1,666.9
-47	32,843	33	739.8	104	84.6	-47	107,838	33	1,419.4	104	120.94	-47	121,727	33	1,598.3
-46	30,914	34	713.2	105	82.5	-46	100,611	34	1,361.3	105	117.53	-46	113,553	34	1,532.9
-45	29,109	35	687.6	106	80.4	-45	93,914	35	1,306.0	106	114.24	-45	105,981	35	1,470.6
-44	27,421	36	663.1	107	78.4	-44	87,704	36	1,253.2	107	111.05	-44	98,963	36	1,411.1
-43	25,842	37	639.6	108	76.5	-43	81,945	37	1,202.8	108	107.96	-43	92,452	37	1,354.4
-42	24,364	38	617.1	109	74.6	-42	76,599	38	1,154.7	109	104.98	-42	86,412	38	1,300.2
-41	22,979	39	595.4	110	72.8	-41	71,635	39	1,108.8	110	102.09	-41	80,803	39	1,248.5
-40	21,681	40	574.7	111	71.1	-40	67,023	40	1,064.9	111	99.29	-40	75,593	40	1,199.2
-39	20,465	41	554.8	112	69.4	-39	62,738	41	1,023.0	112	96.59	-39	70,753	41	1,152.0
-38	19,324	42	535.6	113	67.7	-38	58,753	42	983.02	113	93.97	-38	66,252	42	1,107.0
-37	18,255	43	517.3	114	66.1	-37	55,044	43	944.78	114	91.43	-37	62,066	43	1,063.9
-36	17,250	44	499.6	115	64.5	-36	51,595	44	908.25	115	88.98	-36	58,171	44	1,022.8
-35	16,308	45	482.7	116	63.0	-35	48,382	45	873.31	116	86.60	-35	54,542	45	983.42
-34	15,422	46	466.4	117	61.5	-34	45,388	46	839.90	117	84.29	-34	51,164	46	945.81
-33	14,590	47	450.7	118	60.1	-33	42,598	47	807.95	118	82.06	-33	48,017	47	909.83
-32	13,809	48	435.7	119	58.7	-32	39,997	48	777.37	119	79.90	-32	45,081	48	875.40
-31	13,073	49	421.3	120	57.3	-31	37,571	49	748.12	120	77.80	-31	42,343	49	842.47
-30	12,382	50	407.4	121	56.0	-30	35,306	50	720.13	121	75.77	-30	39,789	50	810.94
-29	11,731	51	39.4	122	54.7	-29	33,192	51	693.33	122	73.80	-29	37,404	51	780.75
-28	11,118	52	381.1	123	53.4	-28	31,217	52	667.66	123	71.89	-28	35,176	52	751.85
-27	10,541	53	368.7	124	52.2	-27	29,372	53	643.07	124	70.04	-27	33,095	53	724.16
-26	9,998	54	356.8	125	51.0	-26	27,647	54	619.53	125	68.25	-26	31,150	54	697.65
-25	9,485	55	345.4	126	49.9	-25	26,034	55	596.96	126	66.51	-25	29,331	55	672.24
-24	9,092	56	334.3	127	48.8	-24	24,524	56	575.34	127	64.82	-24	27,629	56	647.88
-23	8,547	57	323.7	128	47.7	-23	23,111	57	554.61	128	63.18	-23	26,036	57	624.53
-22	8,117	58	313.5	129	46.6	-22	21,789	58	534.73	129	61.59	-22	24,545	58	602.15
-21	7,712	59	303.6	130	45.6	-21	20,549	59	515.67	130	60.05	-21	23,148	59	580.68
-20	7,329	60	294.1	131	44.6	-20	19,388	60	497.38	131	58.56	-20	21,839	60	560.09
-19	6,967	61	285.0	132	43.6	-19	18,299	61	479.84	132	57.10	-19	20,611	61	540.34
-18	6,626	62	276.1	133	42.7	-18	17,278	62	463.00	133	55.69	-18	19,461	62	521.38
-17	6,303	63	267.6	134	41.7	-17	16,320	63	446.85	134	54.32	-17	18,381	63	503.18
-16	5,998	64	259.4	135	40.8	-16	15,421	64	431.34	135	53.00	-16	17,368	64	485.70
-15	5,709	65	251.5	136	39.9	-15	14,576	65	416.44	136	51.70	-15	16,416	65	468.94
-14	5,436	66	243.9	137	39.1	-14	13,783	66	402.14	137	50.45	-14	15,522	66	452.82
-13	5,178	67	236.6	138	38.3	-13	13,038	67	388.40	138	49.23	-13	14,683	67	437.35
-12	4,933	68	229.5	139	37.4	-12	12,337	68	375.20	139	48.05	-12	13,893	68	422.48
-11	4,702	69	222.6	140	36.6	-11	11,678	69	362.51	140	46.90	-11	13,151	69	408.20
-10	4,482	70	216.0	141	35.9	-10	11,058	70	350.32	141	45.79	-10	12,453	70	394.47
-9	4,275			142	35.1	-9	10,475			142	44.70	-9	11,796		
-8	4,078			143	34.4	-8	9,926.0			143	43.65	-8	11,177		
-7	3,891			144	33.7	-7	9,408.8			144	42.62	-7	10,595		
-6	3,714			145	33.0	-6	8,921.8			145	41.63	-6	10,146		
-5	3,546			146	32.3	-5	8,462.6			146	40.66	-5	9,529.2		
-4	3,386			147	31.6	-4	8,029.8			147	39.72	-4	9,041.7		
-3	3,235			148	31.0	-3	7,621.7			148	38.80	-3	8,582.0		
-2	3,091			149	30.4	-2	7,236.7			149	37.91	-2	8,148.4		
-1	2,955			150	29.8	-1	6,873.2			150	37.04	-1	7,739.2		

NOTE: RT-Tables also apply for BetaCURVE, Mini-BetaCURVE and 2 & 3 milliwatt series

INTERCHANGEABLE BetaCURVE R – T SPECIFICATION

3K3A1B

5K3A1B

10K3A1B

3,000 Ohms @ 25°C ± 0.2° 0 - 70°C

5,000 Ohms @ 25°C ± 0.2° 0 - 70°C

10,000 Ohms @ 25°C ± 0.2° 0 - 70°C

3,000 Ohms @ 25°C ± 0.2° 0 - 70°C			5,000 Ohms @ 25°C ± 0.2° 0 - 70°C			10,000 Ohms @ 25°C ± 0.2° 0 - 70°C											
Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)		
-80	2,189.062	0	9,795.2	71	507.90	-80	3,648.437	0	16,325.4	71	846.50	-80	7,296.874	0	32,650.8	71	1,693.00
-79	2,003.162	1	9,309.1	72	490.99	-79	3,338.603	1	15,515.2	72	818.31	-79	6,677.205	1	31,030.4	72	1,636.63
-78	1,834.293	2	8,850.0	73	474.72	-78	3,057.155	2	14,750.0	73	791.21	-78	6,114.311	2	29,500.1	73	1,582.41
-77	1,680.803	3	8,416.3	74	459.08	-77	2,801.338	3	14,027.1	74	765.17	-77	5,602.677	3	28,054.2	74	1,530.28
-76	1,541.203	4	8,006.3	75	444.04	-76	2,568.672	4	13,343.8	75	740.06	-76	5,137.343	4	26,687.6	75	1,480.12
-75	1,414,129	5	7,618.7	76	429.56	-75	2,356.881	5	12,697.8	76	715.93	-75	4,713.762	5	25,395.5	76	1,431.87
-74	1,298.393	6	7,251.8	77	415.61	-74	2,163.988	6	12,086.3	77	692.68	-74	4,327.977	6	24,172.7	77	1,385.37
-73	1,189.906	7	6,904.8	78	402.20	-73	1,983.176	7	11,508.0	78	670.34	-73	3,966.352	7	23,016.0	78	1,340.68
-72	1,096.689	8	6,576.5	79	389.29	-72	1,827.816	8	10,960.8	79	648.82	-72	3,655.631	8	21,921.7	79	1,297.64
-71	1,008.889	9	6,265.6	80	376.85	-71	1,681.481	9	10,422.6	80	628.09	-71	3,362.963	9	20,855.2	80	1,256.17
-70	928.683	10	5,971.1	81	364.87	-70	1,547.805	10	9,951.8	81	608.11	-70	3,095.611	10	19,903.5	81	1,216.23
-69	855.409	11	5,692.1	82	353.33	-69	1,425,681	11	9,486.8	82	588.88	-69	2,851.363	11	18,973.6	82	1,177.75
-68	788.394	12	5,427.8	83	342.21	-68	1,313,991	12	9,046.3	83	570.36	-68	2,627.981	12	18,092.6	83	1,140.71
-67	727.056	13	5,177.2	84	331.50	-67	1,211,760	13	8,628.7	84	552.50	-67	2,423,519	13	17,257.4	84	1,104.99
-66	670.919	14	4,939.5	85	321.17	-66	1,118,199	14	8,232.5	85	535.29	-66	2,236,398	14	16,465.1	85	1,070.58
-65	619.476	15	4,714.2	86	311.22	-65	1,032,459	15	7,857.0	86	518.70	-65	2,064,919	15	15,714.0	86	1,037.40
-64	572,319	16	4,500.3	87	301.62	-64	953,864	16	7,500.6	87	502.70	-64	1,907,728	16	15,001.2	87	1,005.40
-63	529,062	17	4,297.4	88	292.37	-63	881,770	17	7,162.3	88	487.28	-63	1,763,539	17	14,324.6	88	974.56
-62	489,352	18	4,104.8	89	283.44	-62	815,586	18	6,841.3	89	472.40	-62	1,631,173	18	13,682.6	89	944.81
-61	452,892	19	3,915.9	90	274.83	-61	754,820	19	6,536.4	90	458.06	-61	1,509,639	19	13,052.8	90	916.11
-60	419,380	20	3,748.1	91	266.52	-60	698,967	20	6,246.8	91	444.20	-60	1,397,935	20	12,493.7	91	888.41
-59	388,572	21	3,583.0	92	258.51	-59	647,619	21	5,971.6	92	430.85	-59	1,295,239	21	11,943.3	92	861.70
-58	360,219	22	3,426.0	93	250.78	-58	600,366	22	5,710.0	93	417.96	-58	1,200,732	22	11,420.0	93	835.93
-57	334,123	23	3,276.8	94	243.31	-57	556,872	23	5,461.3	94	405.51	-57	1,113,744	23	10,922.7	94	811.03
-56	310,086	24	3,135.0	95	236.10	-56	516,809	24	5,225.0	95	393.49	-56	1,033,619	24	10,449.9	95	786.99
-55	287,937	25	3,000.0	96	229.14	-55	479,895	25	5,000.0	96	381.89	-55	959,789	25	10,000.0	96	763.79
-54	267,507	26	2,871.6	97	222.41	-54	445,844	26	4,786.0	97	370.69	-54	891,689	26	9,572.0	97	741.38
-53	248,660	27	2,749.4	98	215.92	-53	414,433	27	4,582.4	98	359.87	-53	828,865	27	9,164.7	98	719.74
-52	231,264	28	2,633.1	99	209.65	-52	385,440	28	4,388.5	99	349.41	-52	770,880	28	8,777.0	99	698.82
-51	215,193	29	2,522.3	100	203.59	-51	358,655	29	4,203.9	100	339.32	-51	717,310	29	8,407.7	100	678.63
-50	200,348	30	2,416.8	101	197.73	-50	333,914	30	4,028.0	101	329.55	-50	667,828	30	8,056.0	101	659.10
-49	186,617	31	2,316.3	102	192.07	-49	311,028	31	3,860.5	102	320.12	-49	622,055	31	7,720.9	102	640.23
-48	173,916	32	2,220.5	103	186.60	-48	289,859	32	3,700.8	103	311.00	-48	579,718	32	7,401.7	103	622.00
-47	162,159	33	2,129.2	104	181.31	-47	270,265	33	3,548.6	104	302.18	-47	540,530	33	7,097.2	104	604.36
-46	151,269	34	2,042.1	105	176.19	-46	252,115	34	3,403.5	105	293.65	-46	504,230	34	6,807.0	105	587.31
-45	141,183	35	1,959.0	106	171.24	-45	235,305	35	3,265.1	106	285.41	-45	470,609	35	6,530.1	106	570.82
-44	131,833	36	1,879.8	107	166.46	-44	219,722	36	3,133.1	107	277.43	-44	439,445	36	6,266.1	107	554.86
-43	123,160	37	1,804.3	108	161.83	-43	205,266	37	3,007.1	108	269.72	-43	410,532	37	6,014.2	108	539.44
-42	115,114	38	1,732.1	109	157.35	-42	191,856	38	2,886.9	109	262.26	-42	383,712	38	5,773.7	109	524.51
-41	107,642	39	1,663.2	110	153.02	-41	179,403	39	2,772.1	110	255.03	-41	358,806	39	5,544.1	110	510.06
-40	100,701	40	1,597.5	111	148.82	-40	167,835	40	2,662.4	111	248.04	-40	335,671	40	5,321.9	111	496.08
-39	94,254	41	1,534.7	112	144.77	-39	157,089	41	2,557.8	112	241.28	-39	314,179	41	5,115.6	112	482.55
-38	88,258	42	1,474.6	113	140.83	-38	147,096	42	2,457.7	113	234.38	-38	294,193	42	4,915.5	113	469.45
-37	82,682	43	1,417.3	114	137.03	-37	137,803	43	2,362.1	114	228.38	-37	275,605	43	4,724.3	114	456.76
-36	77,492	44	1,362.5	115	133.34	-36	129,153	44	2,270.8	115	222.24	-36	258,307	44	4,541.6	115	444.48
-35	72,658	45	1,310.07	116	129.775	-35	121,097	45	2,183.45	116	216.29	-35	242,195	45	4,366.9	116	432.58
-34	68,159	46	1,259.96	117	126.317	-34	113,598	46	2,099.93	117	210.53	-34	227,196	46	4,199.9	117	421.06
-33	63,966	47	1,212.02	118	122.969	-33	106,609	47	2,020.04	118	204.95	-33	213,219	47	4,040.1	118	409.90
-32	60,055	48	1,166.16	119	119.724	-32	100,092	48	1,943.60	119	199.54	-32	200,184	48	3,887.2	119	399.08
-31	56,408	49	1,122.30	120	116.578	-31	94,013	49	1,870.50	120	194.30	-31	188,026	49	3,741.1	120	388.59
-30	53,005	50	1,080.30	121	113.531	-30	88,342	50	1,800.49	121	189.22	-30	176,683	50	3,601.0	121	378.44
-29	49,827	51	1,040.08	122	110.577	-29	83,046	51	1,733.46	122	184.30	-29	166,091	51	3,466.9	122	368.59
-28	46,860	52	1,001.58	123	107.713	-28	78,100	52	1,669.30	123	179.52	-28	156,199	52	3,338.6	123	359.05
-27	44,088	53	964.69	124	104.937	-27	73,480	53	1,607.81	124	174.89	-27	146,959	53	3,215.6	124	349.79
-26	41,497	54	929.38	125	102.246	-26	69,161	54	1,548.96	125	170.41	-26	138,322	54	3,097.9	125	340.82
-25	39,073	55	895.52	126	99.634	-25	65,122	55	1,492.54	126	166.06	-25	130,243	55	2,985.1	126	332.11
-24	36,806	56	863.08	127	97.100	-24	61,343	56	1,438.46	127	161.83	-24	122,687	56	2,876.9	127	323.37
-23	34,684	57	831.97	128	94.644	-23	57,807	57	1,386.62	128	157.74	-23	115,613	57	2,773.2	128	315.48
-22	32,697	58	802.16	129	92.260	-22	54,496	58	1,336.93	129	153.77	-22	108,991	58	2,673.9	129	307.53
-21	30,836	59	773.56	130	89.946	-21	51,394	59	1,289.26	130	149.91	-21	102,787	59	2,578.5	130	299.82
-20	29,092	60	746.12	131	87.703	-20	48,487	60	1,243.53	131	146.17	-20	96,974	60	2,487.1	131	292.34
-19	27,458	61	719.82	132	85.524	-19	45,763	61	1,199.70	132	139.02	-19	91,525	61	2,399.4	132	285.08
-18	25,924	62	694.55	133	83.410	-18	43,207	62	1,157.59	133	135.59	-18	86,415	62	2,315.2	133	278.03
-17	24,486	63	670.31	134	81.356	-17	40,810	63	1,117.18	134	132.59	-17	81,621	63	2,234.7	134	271.19
-16	23,136	64	647.02	135	79.363	-16	38,561	64	1,078.37	135	132.27	-16	77,121	64	2,156.7	135	264.54
-15	21,868	65	624.69	136	77.427	-15	36,447	65	1,041.15	136	129.04	-15	72,895	65	2,082.3	136	258.09

INTERCHANGEABLE BetaCURVE R – T SPECIFICATION

10K4A1B

30K5A1B

30K6A1B

10,000 Ohms @ 25°C ± 0.2° 0 - 70°C

30,000 Ohms @ 25°C ± 0.2° 0 - 70°C

30,000 Ohms @ 25°C ± 0.2° 0 - 70°C

10,000 Ohms @ 25°C ± 0.2° 0 - 70°C		30,000 Ohms @ 25°C ± 0.2° 0 - 70°C		30,000 Ohms @ 25°C ± 0.2° 0 - 70°C		30,000 Ohms @ 25°C ± 0.2° 0 - 70°C		30,000 Ohms @ 25°C ± 0.2° 0 - 70°C		30,000 Ohms @ 25°C ± 0.2° 0 - 70°C		30,000 Ohms @ 25°C ± 0.2° 0 - 70°C		30,000 Ohms @ 25°C ± 0.2° 0 - 70°C			
Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)		
-80		0	29,490	71	1,928	-80	94,980	71	5,179	-80	29,683,550	0	105,305	71	4,483.4		
-79		1	28,157	72	1,868	-79	90,413	72	5,007	-79	27,090,830	1	99,787	72	4,323.1		
-78		2	26,891	73	1,810	-78	86,090	73	4,841	-78	24,740,930	2	94,588	73	4,169.2		
-77		3	25,689	74	1,754	-77	81,996	74	4,682	-77	22,609,770	3	89,689	74	4,021.6		
-76		4	24,547	75	1,700	-76	78,119	75	4,528	-76	20,676,860	4	85,069	75	3,879.8		
-75		5	23,462	76	1,648	-75	74,445	76	4,381	-75	18,920,900	5	80,713	76	3,743.8		
-74		6	22,430	77	1,598	-74	70,964	77	4,239	-74	17,325,230	6	76,604	77	3,613.2		
-73		7	21,450	78	1,550	-73	67,664	78	4,102	-73	15,874,100	7	72,726	78	3,487.7		
-72		8	20,517	79	1,503	-72	64,534	79	3,970	-72	14,554,130	8	69,064	79	3,367.1		
-71		9	19,631	80	1,458	-71	61,749	80	3,843	-71	13,352,130	9	65,608	80	3,215.4		
-70		10	18,787	81	1,414	-70	58,749	81	3,721	-70	12,257,060	10	62,347	81	3,140.1		
-69		11	17,983	82	1,372	-69	56,076	82	3,603	-69	11,258,450	11	59,257	82	3,033.3		
-68		12	17,219	83	1,332	-68	53,539	83	3,489	-68	10,347,660	12	56,346	83	2,930.5		
-67		13	16,490	84	1,293	-67	51,129	84	3,380	-67	9,516,359	13	53,585	84	2,831.7		
-66		14	14,797	85	1,255	-66	48,841	85	3,274	-66	8,756,854	14	50,978	85	2,736.7		
-65		15	15,136	86	1,218	-65	46,666	86	3,172	-65	8,062,708	15	48,511	86	2,645.4		
-64		16	14,507	87	1,183	-64	44,600	87	3,074	-64	7,428,082	16	46,178	87	2,557.5		
-63		17	13,906	88	1,149	-63	42,637	88	2,979	-63	6,847,255	17	43,969	88	2,472.9		
-62		18	13,334	89	1,116	-62	40,769	89	2,888	-62	6,315,525	18	41,877	89	2,391.5		
-61		19	12,788	90	1,084	-61	38,993	90	2,800	-61	5,828,316	19	39,895	90	2,313.2		
-60		20	12,268	91	1,053	-60	37,304	91	2,715	-60	5,381,736	20	38,019	91	2,237.8		
-59		21	11,771	92	1,023	-59	35,696	92	2,633	-59	4,972,029	21	36,240	92	2,165.2		
-58		22	11,297	93	994.5	-58	34,166	93	2,554	-58	4,596,240	22	34,554	93	2,095.3		
-57		23	10,845	94	966.6	-57	32,709	94	2,477	-57	4,251,001	23	32,955	94	2,028.0		
-56		24	10,413	95	939.6	-56	31,321	95	2,403	-56	3,933,851	24	31,438	95	1,963.2		
-55	608,583	25	10,000	96	913.5	-55	2,308,769	25	30,000	96	2,332	-55	3,642,297	25	30,000	96	1,900.7
-54	570,307	26	9,606	97	888.2	-54	2,221,831	26	28,741	97	2,263	-54	3,374,123	26	28,635	97	1,840.5
-53	534,660	27	9,229	98	863.8	-53	2,074,434	27	27,541	98	2,197	-53	3,127,359	27	27,339	98	1,782.5
-52	501,462	28	8,869	99	840.1	-52	1,937,724	28	26,398	99	2,132	-52	2,900,141	28	26,108	99	1,726.6
-51	470,511	29	8,525	100	817.2	-51	1,810,800	29	25,307	100	2,070	-51	2,690,822	29	24,939	100	1,672.7
-50	441,667	30	8,197	101	795.0	-50	1,692,965	30	24,268	101	2,010	-50	2,497,829	30	23,828	101	1,620.7
-49	414,755	31	7,882	102	773.5	-49	1,583,477	31	23,276	102	1,952	-49	2,319,849	31	22,773	102	1,570.6
-48	389,650	32	7,581	103	752.7	-48	1,481,708	32	22,329	103	1,896	-48	2,155,662	32	21,770	103	1,522.3
-47	366,209	33	7,293	104	732.6	-47	1,387,068	33	21,426	104	1,842	-47	2,004,078	33	20,816	104	1,475.6
-46	344,314	34	7,018	105	713.0	-46	1,299,033	34	20,564	105	1,789	-46	1,864,043	34	19,909	105	1,430.6
-45	323,859	35	6,754	106	694.1	-45	1,217,107	35	19,741	106	1,739	-45	1,734,646	35	19,046	106	1,387.2
-44	304,743	36	6,501	107	675.8	-44	1,140,827	36	18,955	107	1,690	-44	1,615,102	36	18,226	107	1,345.3
-43	286,859	37	6,260	108	658.0	-43	1,069,754	37	18,204	108	1,642	-43	1,504,321	37	17,444	108	1,304.9
-42	270,136	38	6,028	109	640.8	-42	1,003,525	38	17,486	109	1,596	-42	1,404,886	38	16,700	109	1,265.8
-41	254,485	39	5,806	110	624.1	-41	941,778	39	16,801	110	1,552	-41	1,307,057	39	15,992	110	1,228.1
-40	239,831	40	5,594	111	607.9	-40	884,197	40	16,146	111	1,509	-40	1,219,169	40	15,317	111	1,191.7
-39	226,105	41	5,390	112	592.2	-39	830,463	41	15,519	112	1,467	-39	1,137,708	41	14,674	112	1,156.5
-38	213,243	42	5,198	113	577.0	-38	780,300	42	14,920	113	1,427	-38	1,062,201	42	14,062	113	1,122.5
-37	201,187	43	5,007	114	562.2	-37	733,456	43	14,347	114	1,388	-37	992,141	43	13,478	114	1,089.7
-36	189,887	44	4,828	115	547.9	-36	689,696	44	13,799	115	1,350	-36	927,112	44	12,921	115	1,058.0
-35	179,280	45	4,256	116	534.0	-35	648,789	45	13,274	116	1,314	-35	866,735	45	12,390	116	1,027.3
-34	169,330	46	4,490	117	520.6	-34	610,543	46	12,772	117	1,278	-34	810,638	46	11,884	117	997.7
-33	159,990	47	4,332	118	507.5	-33	574,779	47	12,292	118	1,244	-33	758,498	47	11,400	118	969.1
-32	151,219	48	4,180	119	494.8	-32	541,398	48	11,831	119	1,211	-32	710,018	48	10,939	119	941.3
-31	142,978	49	4,034	120	482.5	-31	509,962	49	11,391	120	1,178	-31	664,944	49	10,499	120	914.6
-30	135,233	50	3,893	121	470.5	-30	480,618	50	10,969	121	1,148	-30	622,944	50	10,079	121	888.6
-29	127,952	51	3,759	122	458.9	-29	453,134	51	10,564	122	1,117	-29	583,864	51	9,677.6	122	863.6
-28	121,104	52	3,629	123	447.6	-28	427,366	52	10,176	123	1,087	-28	547,457	52	9,294.4	123	839.4
-27	114,662	53	3,505	124	436.7	-27	403,211	53	9,805	124	1,059	-27	513,542	53	8,928.1	124	815.9
-26	108,599	54	3,386	125	426.0	-26	380,561	54	9,449	125	1,031	-26	481,921	54	8,578.1	125	793.2
-25	102,890	55	3,271	126	415.7	-25	359,302	55	9,107	126	1,005	-25	452,430	55	8,243.6	126	771.3
-24	97,513	56	3,160	127	405.7	-24	339,357	56	8,780	127	978.8	-24	424,905	56	7,923.8	127	750.0
-23	92,449	57	3,054	128	395.9	-23	320,629	57	8,466	128	953.6	-23	399,222	57	7,618.0	128	729.4
-22	87,675	58	2,954	129	386.4	-22	303,036	58	8,164	129	929.2	-22	375,228	58	7,325.3	129	709.5
-21	83,173	59	2,854	130	377.2	-21	286,505	59	7,875	130	905.6	-21	352,814	59	7,045.5	130	690.2
-20	78,930	60	2,760	131	368.3	-20	270,968	60	7,597	131	882.6	-20	331,876	60	6,777.7	131	671.5
-19	74,926	61	2,669	132	359.6	-19	256,360	61	7,331	132	860.3	-19	312,294	61	6,521.5	132	653.4
-18	71,148	62	2,582	133	351.1	-18	242,618	62	7,075	133	838.7	-18	293,980	62	6,276.1	133	635.9
-17	67,581	63	2,498	134	342.9	-17	229,695	63	6,829	134	817.7	-17	276,843	63	6,041.2	134	618.9
-16	64,212	64	2,417	135	334.9	-16	217,525	64	6,593	135	797.3	-16	260,805	64	5,812.6	135	602.4
-15	61,030	65	2,339	136	327.1	-15	206,067	65	6,366	136	777.5	-15	245,785	65	5,600.6	136	586.5
-14	58,024	66	2,264	137	319.6	-14	195,277	66	6,148	137	758.3	-14	231,716	66	5,394.2	137	571.0
-13	55,182	67	2,191	138	312.2	-13	185,111	67	5,939	138	739.6	-13	218,526	67	5,196.3	138	556.0
-12	52,495	68	2,122	139	305.1	-12	175,530	68	5,738	139	721.5	-12	206,168	68	5,006.7	139	541.5
-11	49,954	69	2,055	140	298.1	-11	166,495	69	5,544	140	703.9	-11	194,575	69	4,825.0	140	527.4
-10	47,549	70	1,990	141	291.4	-10	157,974	70	5,358	141	686.8	-10	183,697				

INTERCHANGEABLE BetaCURVE R – T SPECIFICATION

50K6A1B

100K6A1B

1M9A1B

50,000 Ohms @ 25°C ± 0.2° 0 - 70°C

100,000 Ohms @ 25°C ± 0.2° 0 - 70°C

1,000,000 Ohms @ 25°C ± 0.2° 0 to 70°C

Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)	Temp. (°C.)	R Value (ohms)		
-80		0	175,508	71	7,472.2	-80	0	351,017	71	14,944	-80	0	3,965,970	71	118,280		
-79		1	166,310	72	7,205.0	-79	1	332,619	72	14,410	-79	1	3,740,810	72	113,490		
-78		2	157,644	73	6,948.5	-78	2	315,288	73	13,897	-78	2	3,529,430	73	108,910		
-77		3	149,480	74	6,702.3	-77	3	298,959	74	13,405	-77	3	3,330,940	74	104,540		
-76		4	141,779	75	6,466.1	-76	4	283,558	75	12,932	-76	4	3,144,560	75	100,360		
-75		5	134,521	76	6,239.3	-75	5	269,041	76	12,479	-75	5	2,969,450	76	96,370		
-74		6	127,669	77	6,021.6	-74	6	255,337	77	12,043	-74	6	2,804,860	77	92,550		
-73		7	121,207	78	5,812.5	-73	7	242,414	78	11,625	-73	7	2,650,190	78	88,900		
-72		8	115,105	79	5,611.7	-72	8	230,210	79	11,223	-72	8	2,504,700	79	85,410		
-71		9	109,344	80	5,418.7	-71	9	218,688	80	10,837	-71	9	2,367,890	80	82,080		
-70		10	103,903	81	5,233.2	-70	10	207,807	81	10,466	-70	10	2,239,180	81	78,890		
-69		11	98,761	82	5,055.0	-69	11	197,521	82	10,110	-69	11	2,118,030	82	75,830		
-68		12	93,901	83	4,883.8	-68	12	187,803	83	9,767.6	-68	12	2,003,990	83	72,910		
-67		13	89,307	84	4,719.1	-67	13	178,613	84	9,438.1	-67	13	1,896,630	84	70,120		
-66		14	84,962	85	4,560.7	-66	14	169,924	85	9,121.4	-66	14	1,795,480	85	67,440		
-65		15	80,851	86	4,408.4	-65	15	161,702	86	8,816.9	-65	15	1,700,200	86	64,880		
-64		16	76,961	87	4,261.9	-64	16	153,923	87	8,523.8	-64	16	1,610,400	87	62,430		
-63		17	73,280	88	4,120.9	-63	17	146,560	88	8,241.9	-63	17	1,525,780	88	60,080		
-62		18	69,794	89	3,985.4	-62	18	139,588	89	7,970.7	-62	18	1,445,950	89	57,830		
-61		19	66,492	90	3,854.8	-61	19	132,984	90	7,709.7	-61	19	1,370,690	90	55,670		
-60		20	63,364	91	3,729.2	-60	20	126,729	91	7,458.3	-60	20	1,299,670	91	53,600		
-59		21	60,400	92	3,608.2	-59	21	120,799	92	7,216.3	-59	21	1,232,650	92	51,620		
-58		22	57,589	93	3,491.7	-58	22	115,179	93	6,983.4	-58	22	1,169,400	93	49,720		
-57		23	54,925	94	3,379.5	-57	23	109,850	94	6,758.9	-57	23	1,109,680	94	47,900		
-56		24	52,398	95	3,271.4	-56	24	104,796	95	6,542.7	-56	24	1,053,280	95	46,160		
-55	6,081,436	25	50,000	96	3,167.3	-55	25	12,162,871	25	100,000	96	6,334.5	-55	25	1,000,000	96	44,480
-54	5,633,225	26	47,724	97	3,066.9	-54	26	11,266,450	26	95,449	97	6,133.8	-54	26	946,660	97	42,870
-53	5,220,802	27	45,564	98	2,970.3	-53	27	10,441,605	27	91,128	98	5,940.5	-53	27	902,070	98	41,330
-52	4,841,088	28	43,513	99	2,877.0	-52	28	9,682,176	28	87,026	99	5,754.0	-52	28	857,100	99	39,850
-51	4,491,300	29	41,565	100	2,787.2	-51	29	8,982,600	29	83,129	100	5,574.3	-51	29	814,570	100	38,430
-50	4,168,934	30	39,714	101	2,700.5	-50	30	8,337,869	30	79,428	101	5,401.1	-50	30	774,330	101	37,070
-49	3,871,700	31	37,956	102	2,617.0	-49	31	7,743,400	31	75,912	102	5,234.1	-49	31	736,270	102	35,760
-48	3,597,413	32	36,283	103	2,536.4	-48	32	7,194,826	32	72,567	103	5,072.9	-48	32	700,250	103	34,510
-47	3,344,182	33	34,695	104	2,458.7	-47	33	6,688,364	33	69,389	104	4,917.3	-47	33	666,150	104	33,300
-46	3,110,277	34	33,183	105	2,383.7	-46	34	6,220,553	34	66,365	105	4,767.3	-46	34	633,860	105	32,140
-45	2,894,227	35	31,744	106	2,311.3	-45	35	5,788,455	35	63,489	106	4,622.6	-45	35	603,300	106	31,020
-44	2,694,439	36	30,376	107	2,241.4	-44	36	5,388,878	36	60,752	107	4,482.9	-44	36	574,340	107	29,950
-43	2,509,656	37	29,074	108	2,174.0	-43	37	5,019,313	37	58,149	108	4,348.1	-43	37	546,900	108	28,920
-42	2,338,634	38	27,834	109	2,108.9	-42	38	4,677,268	38	55,668	109	4,217.8	-42	38	520,900	109	27,930
-41	2,180,318	39	26,653	110	2,046.1	-41	39	4,360,636	39	53,307	110	4,092.1	-41	39	496,250	110	26,980
-40	2,033,606	40	25,529	111	1,985.4	-40	40	4,067,212	40	51,058	111	3,970.7	-40	40	472,880	111	26,070
-39	1,897,671	41	24,457	112	1,926.7	-39	41	3,795,342	41	48,915	112	3,853.5	-39	41	450,710	112	25,190
-38	1,771,643	42	23,436	113	1,870.1	-38	42	3,543,286	42	46,873	113	3,740.2	-38	42	429,680	113	24,340
-37	1,654,711	43	22,463	114	1,815.4	-37	43	3,309,422	43	44,927	114	3,660.7	-37	43	409,730	114	23,530
-36	1,546,208	44	21,535	115	1,762.5	-36	44	3,092,416	44	43,071	115	3,525.0	-36	44	390,800	115	22,750
-35	1,445,422	45	20,650	116	1,711.4	-35	45	2,890,843	45	41,301	116	3,422.8	-35	45	372,820	116	21,990
-34	1,351,835	46	19,807	117	1,662.0	-34	46	2,703,671	46	39,613	117	3,324.0	-34	46	355,750	117	21,270
-33	1,264,836	47	19,001	118	1,614.3	-33	47	2,529,672	47	38,003	118	3,228.5	-33	47	339,550	118	20,570
-32	1,183,950	48	18,233	119	1,568.1	-32	48	2,367,900	48	36,465	119	3,136.2	-32	48	324,150	119	19,890
-31	1,108,711	49	17,499	120	1,523.4	-31	49	2,217,423	49	34,999	120	3,046.6	-31	49	309,520	120	19,250
-30	1,038,697	50	16,799	121	1,480.3	-30	50	2,077,394	50	33,598	121	2,960.6	-30	50	295,610	121	18,620
-29	973,503	51	16,130	122	1,438.5	-29	51	1,947,006	51	32,260	122	2,877.0	-29	51	282,400	122	18,020
-28	912,784	52	15,491	123	1,398.1	-28	52	1,825,568	52	30,983	123	2,796.2	-28	52	269,830	123	17,440
-27	856,200	53	14,881	124	1,359.0	-27	53	1,712,400	53	29,761	124	2,718.0	-27	53	257,880	124	16,890
-26	803,455	54	14,297	125	1,321.2	-26	54	1,606,911	54	28,595	125	2,642.4	-26	54	246,510	125	16,350
-25	754,265	55	13,740	126	1,284.6	-25	55	1,508,530	55	27,479	126	2,569.2	-25	55	235,690	126	15,830
-24	708,373	56	13,207	127	1,249.2	-24	56	1,416,745	56	26,413	127	2,498.3	-24	56	225,400	127	15,330
-23	665,530	57	12,697	128	1,214.9	-23	57	1,331,059	57	25,394	128	2,429.7	-23	57	215,600	128	14,850
-22	625,540	58	12,209	129	1,181.6	-22	58	1,251,079	58	24,419	129	2,363.3	-22	58	206,270	129	14,380
-21	588,164	59	11,743	130	1,149.5	-21	59	1,176,328	59	23,486	130	2,298.9	-21	59	197,390	130	13,940
-20	553,243	60	11,297	131	1,118.3	-20	60	1,106,485	60	22,593	131	2,236.7	-20	60	188,930	131	13,500
-19	520,587	61	10,869	132	1,088.2	-19	61	1,041,173	61	21,739	132	2,176.3	-19	61	180,870	132	13,090
-18	490,050	62	10,460	133	1,058.9	-18	62	980,100	62	20,921	133	2,117.9	-18	62	173,190	133	12,680
-17	461,478	63	10,069	134	1,030.6	-17	63	922,956	63	20,138	134	2,061.3	-17	63	165,870	134	12,300
-16	434,729	64	9,693.9	135	1,003.2	-16	64	869,458	64	19,388	135	2,006.4	-16	64	158,890	135	11,920
-15	409,689	65	9,334.5	136	976.6	-15	65	819,378	65	18,669	136	1,953.2	-15	65	152,240	136	11,560
-14	386,232	66	8,990.4	137	950.8	-14	66	772,463	66	17,981	137	1,901.6	-14	66	145,890	137	11,210
-13	364,246	67	8,660.6	138	925.9	-13	67	728,492	67	17,321	138	1,851.7	-13	67	139,840	138	10,870
-12	343,638	68	8,344.6	139	901.6	-12	68	687,276	68	16,689	139	1,803.3	-12	68	134,070	139	10,550
-11	324,312	69	8,041.5	140	878.2	-11	69	648,624	69	16,083	140	1,756.3	-11	69	128,560	140	10,230
-10	306,183	70	7,750.9	141	855.4	-10	70	612,366	70	15,502	141	1,710.8	-10	70	123,300	141	9,930
-9	289,160			142	833.3	-9		578,321			142	1,666.6	-9			142	9,640
-8	273,188			143	811.9	-8		546,3									

BetaTHERM Sensors

		Material (Curve) #1				Material (Curve) #2				Material (Curve) #3				Material (Curve) #4			
Temperature deg F.	deg C.	Resistance Multiplier	Alpha (-%/ °C)	Max. Deviation (%) from Curve Nom.		Resistance Multiplier	Alpha (-%/ °C)	Max. Deviation (%) from Curve Nom.		Resistance Multiplier	Alpha (-%/ °C)	Max. Deviation (%) from Curve Nom.		Resistance Multiplier	Alpha (-%/ °C)	Max. Deviation (%) from Curve Nom.	
				BetaCHIP	BetaCURVE			BetaCHIP	BetaCURVE			BetaCHIP	BetaCURVE			BetaCHIP	BetaCURVE
-112	-80	169.20	-6.72	13.5	6.55	233.5	-7.16	13.0	6.98	729.68	-8.90	14.0	8.68				
-103	-75	121.59				163.5				471.37							
-94	-70	88.34	-6.28	11.0	5.65	115.9	-6.69	10.0	6.02	309.56	-8.29	10.5	7.46				
-85	-65	64.87				83.17				206.49							
-76	-60	48.12	-5.88	8.8	3.53	60.39	-6.26	8.0	3.76	139.79	-7.69	8.5	4.61				
-67	-55	36.04				44.33				95.978				60.86			
-58	-50	27.24	-5.51	7.3	3.03	32.89	-5.85	6.0	3.22	66.782	-7.14	6.5	3.93	44.17	-6.30	5.3	3.47
-49	-45	20.778				24.64				47.061				32.39			
-40	-40	15.983	-5.16	6.3	2.53	18.641	-5.47	4.8	2.68	33.5668	-6.61	5.3	3.24	23.983	-5.92	4.6	2.90
-31	-35	12.395				14.231				24.2193				17.928			
-22	-30	9.689	-4.85	5.3	1.94	10.960	-5.12	4.0	2.05	17.6682	-6.21	4.5	2.48	13.523	-5.56	3.9	2.22
-13	-25	7.630				8.511				13.0242				10.289			
-4	-20	6.053	-4.56	4.3	1.46	6.662	-4.82	3.3	1.54	9.6973	-5.81	3.7	1.86	7.893	-5.23	3.3	1.67
5	-15	4.835				5.255				7.2894				6.1030			
14	-10	3.888	-4.29	3.5	1.07	4.175	-4.54	2.6	1.14	5.5297	-5.51	3.0	1.38	4.7549	-4.94	2.7	1.24
23	-5	3.147				3.341				4.2314				3.7316			
32	0	2.563	-4.04	2.7	0.81	2.691	-4.25	2.1	0.85	3.2651	-5.20	2.4	1.04	2.9490	-4.65	2.2	0.93
41	5	2.100				2.182				2.5395				2.3462			
50	10	1.730	-3.82	2.0	0.76	1.780	-4.02	1.6	0.80	1.9903	-4.80	1.8	0.96	1.8787	-4.40	1.7	0.88
59	15	1.434				1.460				1.5714				1.5136			
68	20	1.194	-3.60	1.3	0.72	1.205	-3.78	1.2	0.76	1.2494	-4.52	1.3	0.90	1.2268	-4.16	1.2	0.83
77	25	1.0000	-3.50	1.0	0.70	1.0000	-3.68	1.0	0.74	1.0000	-4.39	1.0	0.88	1.0000	-4.04	1.0	0.81
86	30	0.8414	-3.41	1.3	0.68	0.8342	-3.57	1.2	0.71	0.80560	-4.26	1.3	0.85	0.81966	-3.92	1.2	0.78
95	35	0.7114				0.6993				0.65301				0.67539			
104	40	0.6034	-3.22	1.9	0.64	0.5892	-3.39	1.6	0.68	0.53249	-4.03	1.7	0.81	0.55937	-3.73	1.6	0.75
113	45	0.5155				0.4987				0.43669				0.46557			
122	50	0.4417	-3.05	2.4	0.61	0.4240	-3.21	2.0	0.64	0.36010	-3.80	2.2	0.76	0.38933	-3.53	2.0	0.71
131	55	0.3800				0.3620				0.29851				0.32707			
140	60	0.3283	-2.89	2.9	0.58	0.3104	-3.04	2.3	0.61	0.24871	-3.61	2.6	0.72	0.27599	-3.36	2.3	0.67
149	65	0.2846				0.2673				0.20823				0.23387			
158	70	0.2477	-2.74	3.4	0.55	0.2310	-2.88	2.7	0.58	0.17516	-3.42	3.0	0.68	0.19900	-3.19	2.7	0.64
167	75	0.2164				0.2004				0.14801				0.17000			
176	80	0.1897	-2.60	3.8	0.65	0.1745	-2.73	3.0	0.68	0.12562	-3.25	3.3	0.81	0.14579	-3.05	3.0	0.76
185	85	0.1668				0.1524				0.10706				0.125483			
194	90	0.1472	-2.47	4.2	0.77	0.1336	-2.58	3.3	0.80	0.091610	-3.07	3.7	0.95	0.108395	-2.91	3.3	0.90
203	95	0.1302				0.1175				0.078698				0.093960			
212	100	0.1156	-2.35	4.7	0.82	0.1037	-2.49	3.7	0.87	0.067863	-2.92	4.0	1.02	0.081719	-2.78	3.5	0.97
221	105					0.0917				0.058730				0.071303			
230	110					0.0814	-2.40	4.0	0.96	0.051006	-2.77	4.3	1.11	0.062409	-2.65	3.8	1.06
239	115					0.0725				0.044448				0.054792			
248	120					0.0647	-2.25	4.4	1.24	0.038859	-2.64	4.6	1.45	0.048246	-2.52	4.0	1.39
257	125					0.0579				0.034082				0.042603			
266	130					0.0519	-2.23	4.7	1.34	0.029982	-2.51	4.9	1.51	0.037723	-2.42	4.3	1.45
275	135					0.0467				0.026454				0.033492			
284	140					0.0421	-2.03	5.0	1.62	0.023408	-2.41	5.1	1.93	0.029812	-2.32	4.5	1.86
293	145					0.0380				0.020770				0.026604			
302	150					0.0344	-2.01	5.3	1.91	0.018478	-2.31	5.4	2.19	0.023798	-2.23	4.7	2.12
311	155									0.016457				0.021338			
320	160					0.014713				0.014713	-2.21	5.8		0.019177	-2.11	5.1	
329	165					0.013187				0.013187				0.017273			
338	170					0.011847	-2.17	6.1		0.011847	-2.17	6.1		0.015592	-2.03	5.5	
347	175					0.010667				0.010667				0.014103			
356	180					0.009626	-2.03	6.4		0.009626	-2.03	6.4		0.012783	-1.95	5.8	
365	185					0.008705				0.008705				0.011609			
374	190					0.007888	-1.95	6.7		0.007888	-1.95	6.7		0.010564	-1.87	6.0	
383	195					0.007163				0.007163				0.009630			
392	200					0.006517	-1.87	6.9		0.006517	-1.87	6.9		0.008795	-1.80	6.2	
401	205					0.005940				0.005940				0.008046			
410	210					0.005425	-1.80	7.1		0.005425	-1.80	7.1		0.007374	-1.73	6.6	
419	215					0.004963				0.004963				0.006769			
428	220					0.004548	-1.73	7.3		0.004548	-1.73	7.3		0.006224	-1.66	7.0	
437	225					0.004175				0.004175				0.005732			
446	230					0.003839	-1.66	7.5		0.003839	-1.66	7.5		0.005287	-1.60	7.3	
455	235					0.003536				0.003536				0.004884			
464	240					0.003261	-1.60	7.7		0.003261	-1.60	7.7		0.004518	-1.54	7.6	
473	245					0.003013				0.003013				0.004185			
482	250					0.002787	-1.54	7.9		0.002787	-1.54	7.9		0.003882	-1.49	7.8	
491	255					0.002582				0.002582				0.003606			
500	260					0.002396	-1.49	8.1		0.002396	-1.49	8.1		0.003354	-1.44	8.0	
509	265					0.002226				0.002226				0.003124			
518	270					0.002070	-1.43	8.3		0.002070	-1.43	8.3		0.002913	-1.39	8.3	
527	275					0.001929				0.001929				0.002720			
536	280					0.001799	-1.38	8.4		0.001799	-1.38	8.4		0.002542	-1.34	8.5	
545	285					0.001679				0.001679				0.002379			
554	290					0.001570	-1.34	8.6		0.001570	-1.34	8.6		0.002229	-1.29	8.7	
563	295					0.001469				0.001469				0.002090			
572	300					0.001377	-1.29	8.7		0.001377	-1.29	8.7		0.001962	-1.25	8.8	

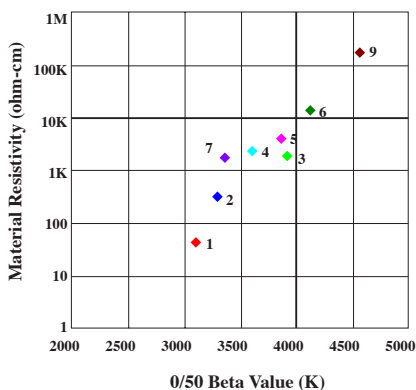
BetaTHERM Sensors

		Material (Curve) #5				Material (Curve) #6				Material (Curve) #7				Material (Curve) #9			
Temperature deg F.	deg C.	Resistance Multiplier	Alpha (-%/ °C)	Max. Deviation (%) from Curve Nom.		Resistance Multiplier	Alpha (-%/ °C)	Max. Deviation (%) from Curve Nom.		Resistance Multiplier	Alpha (-%/ °C)	Max. Deviation (%) from Curve Nom.		Resistance Multiplier	Alpha (-%/ °C)	Max. Deviation (%) from Curve Nom.	
				BetaCHIP	BetaCURVE			BetaCHIP	BetaCURVE			BetaCHIP	BetaCURVE			BetaCHIP	BetaCURVE
-112	-80																
-103	-75																
-94	-70																
-85	-65																
-76	-60																
-67	-55	79.36				121.63				54.14							
-58	-50	56.43	-6.67	5.70	3.67	83.38	-7.40	7.0	4.07	39.49	-6.67	6.7	3.67				
-49	-45	40.57				57.89				29.11							
-40	-40	29.47	-6.26	4.61	3.07	40.672	-6.83	6.1	3.35	21.68	-5.55	5.3	2.72				
-31	-35	21.63				28.909				16.31							
-22	-30	16.02	-5.91	3.92	2.36	20.774	-6.45	5.1	2.58	12.38	-5.43	4.5	2.17				
-13	-25	11.98				15.085				9.485							
-4	-20	9.032	-5.57	3.29	1.78	11.065	-6.08	4.2	1.95	7.329	-5.08	3.7	1.63				
5	-15	6.869				8.1938				5.709							
14	-10	5.266	-5.25	2.71	1.31	6.1237	-5.74	3.4	1.44	4.482	-4.76	3.0	1.19				
23	-5	4.068				4.6169				3.546							
32	0	3.166	-4.94	2.17	0.99	3.5102	-5.40	2.6	1.08	2.825	-4.48	2.4	0.90	3.966	-5.86	3.5	1.17
41	5	2.481				2.6904				2.266				2.969			
50	10	1.958	-4.67	1.68	0.93	2.0781	-5.10	2.0	1.02	1.830	-4.21	1.8	0.84	2.239	-5.58	2.3	1.12
59	15	1.556				1.6170				1.487				1.700			
68	20	1.243	-4.41	1.22	0.88	1.2673	-4.81	1.3	0.96	1.216	-3.99	1.3	0.80	1.300	-5.31	1.3	1.06
77	25	1.0000	-4.30	1.00	0.86	1.0000	-4.68	1.0	0.94	1.0000	-3.87	1.0	0.77	1.0000	-5.18	1.0	1.04
86	30	0.8089	-4.18	1.21	0.84	0.79428	-4.55	1.3	0.91	0.8270	-3.76	1.3	0.75	0.7734	-5.05	1.7	1.01
95	35	0.6580				0.63489				0.6876				0.6033			
104	40	0.5382	-3.96	1.61	0.79	0.51058	-4.30	1.9	0.86	0.5747	-3.56	1.7	0.71	0.4729	-4.81	2.8	0.96
113	45	0.4425				0.41301				0.4827				0.3728			
122	50	0.3656	-3.77	1.98	0.75	0.33598	-4.08	2.4	0.82	0.4074	-3.36	2.2	0.67	0.2956	-4.59	3.5	0.92
131	55	0.3036				0.27480				0.3454				0.2357			
140	60	0.2532	-3.58	2.33	0.72	0.22593	-3.87	2.9	0.77	0.2941	-3.17	2.6	0.63	0.1889	-4.37	4.3	0.88
149	65	0.2122				0.18669				0.2515				0.1522			
158	70	0.1786	-3.42	2.66	0.68	0.15502	-3.68	3.3	0.74	0.2160	-2.99	3.0	0.60	0.1233	-4.17	5.2	0.84
167	75	0.1509				0.12932				0.1862				0.1004			
176	80	0.1281	-3.25	2.97	0.81	0.10837	-3.49	3.7	0.87	0.1612	-2.84	3.3	0.71	0.0821	-3.97	5.9	0.99
185	85	0.1091				0.091215				0.1400				0.0674			
194	90	0.09333	-3.10	3.26	0.96	0.077097	-3.33	4.1	1.03	0.1220	-2.69	3.7	0.83	0.0557	-3.79	6.6	1.18
203	95	0.08011				0.065428				0.1067				0.0462			
212	100	0.06900	-2.95	3.53	1.03	0.055744	-3.17	4.5	1.11	0.0937	-2.54	4.0	0.89	0.0384	-3.62	7.3	1.26
221	105	0.05964				0.047674				0.0825				0.0321			
230	110	0.05173	-2.81	3.79	1.12	0.040921	-3.04	4.9	1.22	0.0728	-2.36	4.3	0.94	0.0270	-3.46	8.0	1.38
239	115	0.04500				0.035251				0.0645				0.0228			
248	120	0.03928	-2.68	4.03	1.47	0.030469	-2.91	5.2	1.60	0.0573	-2.31	4.6	1.20	0.0193	-3.30	8.6	1.82
257	125	0.03438				0.026424				0.0510				0.0164			
266	130	0.03019	-2.59	4.26	1.55	0.022990	-2.87	5.5	1.72	0.0456	-2.12	4.9	1.29	0.0139	-3.16	9.3	1.90
275	135	0.02658				0.020064				0.0408				0.0119			
284	140	0.02346	-2.49	4.48	1.99	0.017563	-2.74	5.8	2.19	0.0366	-2.00	5.1	1.60	0.0102	-3.02	9.7	2.41
293	145	0.02077				0.015419				0.0330				0.0088			
302	150	0.01843	-2.39	4.69	2.27	0.013575	-2.60	6.1	2.47	0.0298	-1.88	5.4	79	0.0076	-2.89	10.3	2.75
311	155	0.01646				0.011966				0.0269				0.00660			
320	160	0.01468	-2.26	5.1		0.010590	-2.42	6.5		0.0244	-1.95	5.8		0.00573	-2.78	10.9	
329	165	0.01313				0.009396				0.0221				0.00499			
338	170	0.01177	-2.15	5.3		0.008358	-2.32	6.9		0.0201	-1.87	6.1		0.00436	-2.67	11.3	
347	175	0.01058				0.007453				0.0184				0.00382			
356	180	0.009522	-2.08	5.6		0.006661	-2.22	7.3		0.0168	-1.79	6.4		0.00336	-2.57	11.7	
365	185	0.008592				0.005967				0.0154				0.00295			
374	190	0.007768	-2.00	5.9		0.005357	-2.14	7.7		0.0141	-1.72	6.7		0.00261	-2.47	12.2	
383	195	0.007037				0.004820				0.0129				0.00231			
392	200	0.006388	-1.92	6.1		0.004345	-2.05	8.1		0.0119	-1.65	7.0		0.00205	-2.38	12.8	
401	205	0.005809				0.003925				0.0110				0.00182			
410	210	0.005293	-1.84	6.3		0.003553	-1.97	8.4		0.0101	-1.58	7.3		0.00162	-2.29	13.2	
419	215	0.004831				0.003223				0.00936				0.00145			
428	220	0.004417	-1.77	6.5		0.002928	-1.90	8.7		0.00867	-1.52	7.6		0.00129	-2.20	13.7	
437	225	0.004045				0.002665				0.00804				0.00116			
446	230	0.003711	-1.71	6.7		0.002430	-1.83	9.0		0.00747	-1.46	7.8		0.001045	-2.12	14.1	
455	235	0.003410				0.002220				0.00695				0.000941			
464	240	0.003138	-1.65	6.9		0.002031	-1.76	9.3		0.00647	-1.41	8.0		0.000848	-2.05	14.5	
473	245	0.002892				0.001862				0.00604				0.000767			
482	250	0.002669	-1.59	7.1		0.001709	-1.70	9.6		0.00564	-1.35	8.3		0.000694	-1.98	14.9	
491	255	0.002467				0.001571				0.00527				0.000629			
500	260	0.002284	-1.53	7.3		0.001446	-1.64	9.9		0.00494	-1.31	8.5		0.000570	-1.91	15.3	
509	265	0.002117				0.001333				0.00463				0.000520			
518	270	0.001965	-1.48	7.4		0.001231	-1.58	10.2		0.00434	-1.26	8.7		0.000474	-1.84	15.6	
527	275	0.001826				0.001138				0.00408				0.000432			
536	280	0.001699	-1.43	7.5		0.001054	-1.53	10.4		0.00384	-1.21	8.9		0.000395	-1.78	15.9	
545	285	0.001583				0.000977				0.00361				0.000362			
554	290	0.001477	-1.38	7.7		0.000907	-1.48	10.6		0.00341	-1.17	9.1		0.000332	-1.72	16.3	
563	295	0.001379				0.000843				0.00321				0.000304			
572	300	0.001290	-1.33	7.8		0.000785	-1.43	10.9		0.00304	-1.13	9.3		0.000280	-1.67	16.6	

Resistance ratio, Slope and Beta specifications

Material (Curve) Number	1	2	3	4	5	6	7	9
Typical Resistance Range (ohms @ 25 °C)	50 to 500	100 to 1K	2K to 20K	5K to 30K	10K to 50K	50K to 100K	100 to 10K	100K to 1Meg
0/50 Nominal Beta Value	3108	3263	3892	3575	3811	4143	3422	4582
Max % Deviation								
<i>BetaCHIP</i>	1.7	0.92	1.4	1.0	0.94	1.3	1.0	1.9
<i>BetaCURVE</i>	0.4	0.38	0.32	0.30	0.33	0.30	0.36	0.63
Nominal 0/50 R Ratio	5.8	6.35	9.06	7.58	8.65	10.45	6.95	13.40
Max % Deviation								
<i>BetaCHIP</i>	3.2	2.1	2.5	2.2	2.2	3.1	2.5	3.4
<i>BetaCURVE</i>	0.9	0.7	0.7	0.9	0.9	0.9	0.7	1.1
Nominal 0/70 R Ratio	10.35	11.65	18.65	14.82	17.73	22.65	13.08	32.17
Max % Deviation								
<i>BetaCHIP</i>	4.2	2.8	3.4	2.9	2.9	4.1	3.4	4.7
<i>BetaCURVE</i>	1.1	1.0	1.0	1.1	1.1	1.1	1.1	1.2
Nominal 25/125 R Ratio	10.35	17.33	29.27	23.51	29.15	38.07	19.05	61.96
Max % Deviation								
<i>BetaCHIP</i>	NA	3.7	3.9	3.3	3.3	4.6	3.9	5.2
<i>BetaCURVE</i>	NA	1.5	1.4	1.3	1.3	1.3	1.4	1.4

Material Resistivity - Beta Characteristics for BetaTHERM Thermistors Materials (Curves)



Beta Value vs Temperature for BetaTHERM Thermistors Materials (Curves)

