1K7A1

1000 Ohms @ 25°C ±0.2° 0°C to +25°C

Temp. (°C)	R Value (Ohms)	Temp (°C)	R Value (Ohms)	Temp. (°C)	R Value (Ohms)
-80		0	2,825	71	209.6
-79		1	2,702	72	203.5
-78		2	2,585	73	197.5
-77		3	2,473	74	191.8
-76		4	2,367	75	186.2
-75		5	2,266	76	180.9
-74		6	2,170	77	175.7
-73		7	2,079	78	170.7
-72		8	1,992	79	165.8
-71		9	1,909	80	161.2
-70		10	1,830	81	156.6
-69		11	1,755	82	152.3
-68		12	1,683	83	148.0
-67		13	1,615	84	144.0
-66		14	1,549	85	140.0
-65		15	1,487	86	136.2
-64		16	1,428	87	132.5
-63		17	1,371	88	128.9
-62		18	1,317	89	125.4
-61		19	1,265	90	122.0
-60		20	1,216	91	118.8
-59		21	1,169	92	115.6
-58		22	1,124	93	112.6
-57		23	1,081	94	109.6
-56		24	1,039	95	106.7
-55	54,143	**25**	**1,000**	96	104.0
-54	50,785	26	962.3	97	101.3
-53	47,657	27	926.2	98	98.7
-52	44,741	28	891.7	99	96.1
-51	42,022	29	858.7	100	93.7
-50	39,486	30	827.0	101	91.3
-49	37,119	31	796.7	102	89.0
-48	34,908	32	767.6	103	86.8
-47	32,843	33	739.8	104	84.6
-46	30,914	34	713.2	105	82.5
-45	29,109	35	687.6	106	80.4
-44	27,421	36	663.1	107	78.4
-43	25,842	37	639.6	108	76.5
-42	24,364	38	617.1	109	74.6
-41	22,979	39	595.4	110	72.8
-40	21,681	40	574.7	111	71.1
-39	20,465	41	554.8	112	69.4
-38	19,324	42	535.6	113	67.7
-37	18,255	43	517.3	114	66.1
-36	17,250	44	499.6	115	64.5
-35	16,308	45	482.7	116	63.0
-34	15,422	46	466.4	117	61.5
-33	14,590	47	450.7	118	60.1
-32	13,809	48	435.7	119	58.7
-31	13,073	49	421.3	120	57.3
-30	12,382	50	407.4	121	56.0
-29	11,731	51	394.0	122	54.7
-28	11,118	52	381.1	123	53.4
-27	10,541	53	368.7	124	52.2
-26	9,998	54	356.8	125	51.0
-25	9,485	55	345.4	126	49.9
-24	9,092	56	334.3	127	48.8
-23	8,547	57	323.7	128	47.7
-22	8,117	58	313.5	129	46.6
-21	7,712	59	303.6	130	45.6
-20	7,329	60	294.1	131	44.6
-19	6,967	61	285.0	132	43.6
-18	6,626	62	276.1	133	42.7
-17	6,303	63	267.6	134	41.7
-16	5,998	64	259.4	135	40.8
-15	5,709	65	251.5	136	39.9
-14	5,436	66	243.9	137	39.1
-13	5,178	67	236.6	138	38.3
-12	4,933	68	229.5	139	37.4
-11	4,702	69	222.6	140	36.6
-10	4,482	70	216.0	141	35.9
-9	4,275			142	35.1
-8	4,078			143	34.4
-7	3,891			144	33.7
-6	3,714			145	33.0
-5	3,546			146	32.3
-4	3,386			147	31.6
-3	3,235			148	31.0
-2	3,091			149	30.4
-1	2,955			150	29.8

2K3A1B

2000 Ohms @ 25°C ±0.2° 0°C to +70°C

Temp. (°C)	R Value (Ohms)	Temp (°C)	R Value (Ohms)	Temp. (°C)	R Value (Ohms)
-80	1,443,351	0	6,530.3	71	338.60
-79	1,321,342	1	6,206.3	72	327.33
-78	1,210,414	2	5,900.3	73	316.49
-77	1,109,594	3	5,611.1	74	306.07
-76	1,017,816	4	5,337.7	75	296.03
-75	934,245	5	5,079.2	76	286.38
-74	858,099	6	4,834.7	77	277.10
-73	788,647	7	4,603.4	78	268.16
-72	725,287	8	4,384.5	79	259.55
-71	667,436	9	4,177.3	80	251.26
-70	614,575	10	3,980.9	81	243.28
-69	566,242	11	3,794.9	82	235.59
-68	522,033	12	3,618.6	83	228.17
-67	481,566	13	3,451.6	84	221.04
-66	444,506	14	3,293.2	85	214.15
-65	410,531	15	3,142.9	86	207.52
-64	379,380	16	3,000.3	87	201.12
-63	350,786	17	2,865.1	88	194.96
-62	324,544	18	2,736.6	89	189.01
-61	300,425	19	2,614.6	90	183.27
-60	278,258	20	2,498.8	91	177.73
-59	257,873	21	2,388.7	92	172.39
-58	239,106	22	2,284.0	93	167.24
-57	221,830	23	2,184.5	94	162.26
-56	205,913	24	2,090.0	95	157.46
-55	191,239	**25**	**2,000.0**	96	152.82
-54	177,703	26	1,914.4	97	148.34
-53	165,213	27	1,832.9	98	144.01
-52	153,681	28	1,755.4	99	139.83
-51	143,024	29	1,681.5	100	135.79
-50	133,177	30	1,611.2	101	131.89
-49	124,068	31	1,544.1	102	128.12
-48	115,640	32	1,480.3	103	124.47
-47	107,838	33	1,419.4	104	120.94
-46	100,611	34	1,361.3	105	117.53
-45	93,914	35	1,306.0	106	114.24
-44	87,704	36	1,253.2	107	111.05
-43	81,945	37	1,202.8	108	107.96
-42	76,599	38	1,154.7	109	104.98
-41	71,635	39	1,108.8	110	102.09
-40	67,023	40	1,064.9	111	99.29
-39	62,738	41	1,023.0	112	96.59
-38	58,753	42	983.02	113	93.97
-37	55,044	43	944.78	114	91.43
-36	51,595	44	908.25	115	88.98
-35	48,382	45	873.31	116	86.60
-34	45,388	46	839.90	117	84.29
-33	42,598	47	807.95	118	82.06
-32	39,997	48	777.37	119	79.90
-31	37,571	49	748.12	120	77.80
-30	35,306	50	720.13	121	75.77
-29	33,192	51	693.33	122	73.80
-28	31,217	52	667.66	123	71.89
-27	29,372	53	643.07	124	70.04
-26	27,647	54	619.53	125	68.25
-25	26,034	55	596.96	126	66.51
-24	24,524	56	575.34	127	64.82
-23	23,111	57	554.61	128	63.18
-22	21,789	58	534.73	129	61.59
-21	20,549	59	515.67	130	60.05
-20	19,388	60	497.38	131	58.56
-19	18,299	61	479.84	132	57.10
-18	17,278	62	463.00	133	55.69
-17	16,320	63	446.85	134	54.32
-16	15,421	64	431.34	135	53.00
-15	14,576	65	416.44	136	51.70
-14	13,783	66	402.14	137	50.45
-13	13,038	67	388.40	138	49.23
-12	12,337	68	375.20	139	48.05
-11	11,678	69	362.51	140	46.90
-10	11,058	70	350.32	141	45.79
-9	10,475			142	44.70
-8	9,926.0			143	43.65
-7	9,408.8			144	42.62
-6	8,921.8			145	41.63
-5	8,462.6			146	40.66
-4	8,092.8			147	39.72
-3	7,621.7			148	38.80
-2	7,236.7			149	37.91
-1	6,873.2			150	37.04

2.2K3A1B

2252 Ohms @ 25°C ±0.2° 0°C to +70°C

Temp. (°C)	R Value (Ohms)	Temp (°C)	R Value (Ohms)	Temp. (°C)	R Value Ohms)
-80	1,643,256	0	7,353.0	71	381.26
-79	1,503,707	1	6,988.1	72	368.57
-78	1,376,943	2	6,643.4	73	356.36
-77	1,261,723	3	6,317.8	74	344.62
-76	1,156,930	4	6,010.0	75	333.32
-75	1,061,539	5	5,719.1	76	322.46
-74	974,660	6	5,443.7	77	311.99
-73	893,222	7	5,183.2	78	301.92
-72	823,248	8	4,936.8	79	292.23
-71	757,339	9	4,703.3	80	282.89
-70	697,132	10	4,482.3	81	273.89
-69	642,127	11	4,272.9	82	265.23
-68	591,821	12	4,074.5	83	256.89
-67	545,777	13	3,886.4	84	248.84
-66	503,637	14	3,707.9	85	241.09
-65	465,020	15	3,538.8	86	233.62
-64	429,620	16	3,378.3	87	226.42
-63	397,149	17	3,225.9	88	219.47
-62	367,340	18	3,081.3	89	212.77
-61	339,971	19	2,939.5	90	206.31
-60	314,815	20	2,813.6	91	200.07
-59	291,688	21	2,689.6	92	194.06
-58	270,405	22	2,571.8	93	188.25
-57	250,815	23	2,459.8	94	182.64
-56	232,771	24	2,353.3	95	177.23
-55	216,145	**25**	**2,252.0**	96	172.01
-54	200,808	26	2,155.6	97	166.96
-53	186,660	27	2,063.9	98	162.08
-52	173,602	28	1,976.6	99	157.37
-51	161,538	29	1,893.4	100	152.83
-50	150,395	30	1,814.2	101	148.43
-49	140,087	31	1,738.8	102	144.18
-48	130,553	32	1,666.9	103	140.07
-47	121,727	33	1,598.3	104	136.10
-46	113,553	34	1,532.9	105	132.26
-45	105,981	35	1,470.6	106	128.55
-44	98,963	36	1,411.1	107	124.95
-43	92,452	37	1,354.4	108	121.48
-42	86,412	38	1,300.2	109	118.12
-41	80,803	39	1,248.5	110	114.87
-40	75,593	40	1,199.2	111	111.72
-39	70,753	41	1,152.0	112	108.67
-38	66,252	42	1,107.0	113	105.72
-37	62,066	43	1,063.9	114	102.86
-36	58,171	44	1,022.8	115	100.10
-35	54,542	45	983.42	116	97.418
-34	51,164	46	945.81	117	94.822
-33	48,017	47	909.83	118	92.308
-32	45,081	48	875.40	119	89.873
-31	42,343	49	842.47	120	87.511
-30	39,789	50	810.94	121	85.224
-29	37,404	51	780.75	122	83.007
-28	35,176	52	751.85	123	80.857
-27	33,095	53	724.16	124	78.772
-26	31,150	54	697.65	125	76.752
-25	29,331	55	672.24	126	74.792
-24	27,629	56	647.88	127	72.890
-23	26,036	57	624.53	128	71.046
-22	24,545	58	602.15	129	69.256
-21	23,148	59	580.68	130	67.520
-20	21,839	60	560.09	131	65.836
-19	20,611	61	540.34	132	64.200
-18	19,461	62	521.38	133	62.613
-17	18,381	63	503.18	134	61.071
-16	17,368	64	485.70	135	59.575
-15	16,416	65	468.94	136	58.122
-14	15,522	66	452.82	137	56.711
-13	14,683	67	437.35	138	55.340
-12	13,893	68	422.48	139	54.008
-11	13,151	69	408.20	140	52.715
-10	12,453	70	394.47	141	51.458
-9	11,796			142	50.237
-8	11,177			143	49.049
-7	10,595			144	47.895
-6	10,046			145	46.774
-5	9,529.2			146	45.684
-4	9,041.7			147	44.623
-3	8,582.0			148	43.592
-2	8,148.4			149	42.589
-1	7,739.2			150	41.614

3K3A1B

3000 Ohms @ 25°C ±0.2° 0°C to +70°C

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
-79	2,003,162	1	9,309.1	72	490.99
-78	1,834,293	2	8,850.0	73	474.72
-77	1,680,803	3	8,416.3	74	459.08
-76	1,541,203	4	8,006.3	75	444.04
-75	1,414,129	5	7,618.7	76	429.56
-74	1,298,393	6	7,251.8	77	415.61
-73	1,189,906	7	6,904.8	78	402.20
-72	1,096,689	8	6,576.5	79	389.29
-71	1,008,889	9	6,265.6	80	376.85
-70	928,683	10	5,971.1	81	364.87
-69	855,409	11	5,692.1	82	353.33
-68	788,394	12	5,427.8	83	342.21
-67	727,056	13	5,177.2	84	331.50
-66	670,919	14	4,939.5	85	321.17
-65	619,476	15	4,714.2	86	311.22
-64	572,319	16	4,500.3	87	301.62
-63	529,062	17	4,297.4	88	292.37
-62	489,352	18	4,104.8	89	283.44
-61	452,892	19	3,915.9	90	274.83
-60	419,380	20	3,748.1	91	266.52
-59	388,572	21	3,583.0	92	258.51
-58	360,219	22	3,426.0	93	250.78
-57	334,123	23	3,276.8	94	243.31
-56	310,086	24	3,135.0	95	236.10
-55	287,937	**25**	**3,000.0**	96	229.14
-54	267,507	26	2,871.6	97	222.41
-53	248,660	27	2,749.4	98	215.92
-52	231,264	28	2,633.1	99	209.65
-51	215,193	29	2,522.3	100	203.59
-50	200,348	30	2,416.8	101	197.73
-49	186,617	31	2,316.3	102	192.07
-48	173,916	32	2,220.5	103	186.60
-47	162,159	33	2,129.2	104	181.31
-46	151,269	34	2,042.1	105	176.19
-45	141,183	35	1,959.0	106	171.24
-44	131,833	36	1,879.8	107	166.46
-43	123,160	37	1,804.3	108	161.83
-42	115,114	38	1,732.1	109	157.35
-41	107,642	39	1,663.2	110	153.02
-40	100,701	40	1,597.5	111	148.82
-39	94,254	41	1,534.7	112	144.77
-38	88,258	42	1,474.6	113	140.83
-37	82,682	43	1,417.3	114	137.03
-36	77,492	44	1,362.5	115	133.34
-35	72,658	45	1,310.07	116	129.775
-34	68,159	46	1,259.96	117	126.317
-33	63,966	47	1,212.02	118	122.969
-32	60,055	48	1,166.16	119	119.724
-31	56,408	49	1,122.30	120	116.578
-30	53,005	50	1,080.30	121	113.531
-29	49,827	51	1,040.08	122	110.577
-28	46,860	52	1,001.58	123	107.713
-27	44,088	53	964.69	124	104.937
-26	41,497	54	929.38	125	102.246
-25	39,073	55	895.52	126	99.634
-24	36,806	56	863.08	127	97.100
-23	34,684	57	831.97	128	94.644
-22	32,697	58	802.16	129	92.260
-21	30,836	59	773.56	130	89.946
-20	29,092	60	746.12	131	87.703
-19	27,458	61	719.82	132	85.524
-18	25,924	62	694.55	133	83.410
-17	24,486	63	670.31	134	81.356
-16	23,136	64	647.02	135	79.363
-15	21,868	65	624.69	136	77.427
-14	20,678	66	603.23	137	75.547
-13	19,559	67	582.62	138	73.721
-12	18,508	68	562.81	139	71.947
-11	17,519	69	543.78	140	70.225
-10	16,589	70	525.49	141	68.550
-9	15,714			142	66.923
-8	14,890			143	65.341
-7	14,114			144	63.804
-6	13,383			145	62.309
-5	12,694.4			146	60.857
-4	12,044.8			147	59.445
-3	11,432.6			148	58.071
-2	10,854.8			149	56.735
-1	10,309.8			150	55.436

5K3A1B

5000 Ohms @ 25°C ±0.2° 0°C to +70°C

Temp. (°C)	R Value (Ohms)	Temp (°C)	R Value (Ohms)	Temp. (°C)	R Value (Ohms)
-80	3,648,437	0	16,325.4	71	846.50
-79	3,338,603	1	15,515.2	72	818.31
-78	3,057,155	2	14,750.0	73	791.21
-77	2,801,338	3	14,027.1	74	765.14
-76	2,568,672	4	13,343.8	75	740.06
-75	2,356,881	5	12,697.8	76	715.93
-74	2,163,988	6	12,086.3	77	692.68
-73	1,983,176	7	11,508.0	78	670.34
-72	1,827,816	8	10,960.8	79	648.82
-71	1,681,481	9	10,442.6	80	628.09
-70	1,547,805	10	9,951.8	81	608.11
-69	1,425,681	11	9,486.8	82	588.88
-68	1,313,991	12	9,046.3	83	570.36
-67	1,211,760	13	8,628.7	84	552.50
-66	1,118,199	14	8,232.5	85	535.29
-65	1,032,459	15	7,857.0	86	518.70
-64	953,864	16	7,500.6	87	502.70
-63	881,770	17	7,162.3	88	487.28
-62	815,586	18	6,841.3	89	472.40
-61	754,820	19	6,536.4	90	458.06
-60	698,967	20	6,246.8	91	444.20
-59	647,619	21	5,971.6	92	430.85
-58	600,366	22	5,710.0	93	417.96
-57	556,872	23	5,461.3	94	405.51
-56	516,809	24	5,225.0	95	393.49
-55	479,895	**25**	**5,000.0**	96	381.89
-54	445,844	26	4,786.0	97	370.69
-53	414,433	27	4,582.4	98	359.87
-52	385,440	28	4,388.5	99	349.41
-51	358,655	29	4,203.9	100	339.32
-50	333,914	30	4,028.0	101	329.55
-49	311,028	31	3,860.5	102	320.12
-48	289,859	32	3,700.8	103	311.00
-47	270,265	33	3,548.6	104	302.18
-46	252,115	34	3,403.5	105	293.65
-45	235,305	35	3,265.1	106	285.41
-44	219,722	36	3,133.1	107	277.43
-43	205,266	37	3,007.1	108	269.72
-42	191,856	38	2,886.9	109	262.26
-41	179,403	39	2,772.1	110	255.03
-40	167,835	40	2,662.4	111	248.04
-39	157,089	41	2,557.8	112	241.28
-38	147,096	42	2,457.7	113	234.72
-37	137,803	43	2,362.1	114	228.38
-36	129,153	44	2,270.8	115	222.24
-35	121,097	45	2,183.45	116	216.29
-34	113,598	46	2,099.93	117	210.53
-33	106,609	47	2,020.04	118	204.95
-32	100,092	48	1,943.60	119	199.54
-31	94,013	49	1,870.50	120	194.30
-30	88,342	50	1,800.49	121	189.22
-29	83,046	51	1,733.46	122	184.30
-28	78,100	52	1,669.30	123	179.52
-27	73,480	53	1,607.81	124	174.89
-26	69,161	54	1,548.96	125	170.41
-25	65,122	55	1,492.54	126	166.06
-24	61,343	56	1,438.46	127	161.83
-23	57,807	57	1,386.62	128	157.74
-22	54,496	58	1,336.93	129	153.77
-21	51,394	59	1,289.26	130	149.91
-20	48,487	60	1,243.53	131	146.17
-19	45,763	61	1,199.70	132	142.54
-18	43,207	62	1,157.59	133	139.02
-17	40,810	63	1,117.18	134	135.59
-16	38,561	64	1,078.37	135	132.27
-15	36,447	65	1,041.15	136	129.04
-14	34,464	66	1,005.38	137	125.91
-13	32,599	67	971.03	138	122.87
-12	30,846	68	938.02	139	119.91
-11	29,199	69	906.30	140	117.04
-10	27,649	70	875.81	141	114.25
-9	26,190			142	111.54
-8	24,817			143	108.90
-7	23,523			144	106.34
-6	22,305			145	103.85
-5	21,157.3			146	101.43
-4	20,074.7			147	99.074
-3	19,054.3			148	96.785
-2	18,091.4			149	94.559
-1	17,183.1			150	92.393

10K3A1B

10000 Ohms @ 25°C ±0.2° 0 °C to +70 °C

Temp. (°C)	R Value (Ohms)	Temp (°C)	R Value (Ohms)	Temp. (°C)	R Value (Ohms)
-80	7,296,874	0	32,650.8	71	1,693.00
-79	6,677,205	1	31,030.4	72	1,636.63
-78	6,114,311	2	29,500.1	73	1,582.41
-77	5,602,677	3	28,054.2	74	1,530.28
-76	5,137,343	4	26,687.6	75	1,480.12
-75	4,713,762	5	25,395.5	76	1,431.87
-74	4,327,977	6	24,172.7	77	1,385.37
-73	3,966,352	7	23,016.0	78	1,340.68
-72	3,655,631	8	21,921.7	79	1,297.64
-71	3,362,963	9	20,885.2	80	1,256.17
-70	3,095,611	10	19,903.5	81	1,216.23
-69	2,851,363	11	18,973.6	82	1,177.75
-68	2,627,981	12	18,092.6	83	1,140.71
-67	2,423,519	13	17,257.4	84	1,104.99
-66	2,236,398	14	16,465.1	85	1,070.58
-65	2,064,919	15	15,714.0	86	1,037.40
-64	1,907,728	16	15,001.2	87	1,005.40
-63	1,763,539	17	14,324.6	88	974.56
-62	1,631,173	18	13,682.6	89	944.81
-61	1,509,639	19	13,052.8	90	916.11
-60	1,397,935	20	12,493.7	91	888.41
-59	1,295,239	21	11,943.3	92	861.70
-58	1,200,732	22	11,420.0	93	835.93
-57	1,113,744	23	10,922.7	94	811.03
-56	1,033,619	24	10,449.9	95	786.99
-55	959,789	**25**	**10,000**	96	763.79
-54	891,689	26	9,572.0	97	741.38
-53	828,865	27	9,164.7	98	719.74
-52	770,880	28	8,777.0	99	698.82
-51	717,310	29	8,407.7	100	678.63
-50	667,828	30	8,056.0	101	659.10
-49	622,055	31	7,720.9	102	640.23
-48	579,718	32	7,401.7	103	622.00
-47	540,530	33	7,097.2	104	604.36
-46	504,230	34	6,807.0	105	587.31
-45	470,609	35	6,530.1	106	570.82
-44	439,445	36	6,266.1	107	554.86
-43	410,532	37	6,014.2	108	539.44
-42	383,712	38	5,773.7	109	524.51
-41	358,806	39	5,544.1	110	510.06
-40	335,671	40	5,324.9	111	496.08
-39	314,179	41	5,115.6	112	482.55
-38	294,193	42	4,915.5	113	469.45
-37	275,605	43	4,724.3	114	456.76
-36	258,307	44	4,541.6	115	444.48
-35	242,195	45	4,366.9	116	432.58
-34	227,196	46	4,199.9	117	421.06
-33	213,219	47	4,040.1	118	409.90
-32	200,184	48	3,887.2	119	399.08
-31	188,026	49	3,741.1	120	388.59
-30	176,683	50	3,601.0	121	378.44
-29	166,091	51	3,466.9	122	368.59
-28	156,199	52	3,338.6	123	359.05
-27	146,959	53	3,215.6	124	349.79
-26	138,322	54	3,097.9	125	340.82
-25	130,243	55	2,985.1	126	332.11
-24	122,687	56	2,876.9	127	323.67
-23	115,613	57	2,773.2	128	315.48
-22	108,991	58	2,673.9	129	307.53
-21	102,787	59	2,578.5	130	299.82
-20	96,974	60	2,487.1	131	292.34
-19	91,525	61	2,399.4	132	285.08
-18	86,415	62	2,315.2	133	278.03
-17	81,621	63	2,234.7	134	271.19
-16	77,121	64	2,156.7	135	264.54
-15	72,895	65	2,082.3	136	258.09
-14	68,927	66	2,010.8	137	251.82
-13	65,198	67	1,942.1	138	245.74
-12	61,693	68	1,876.0	139	239.82
-11	58,397	69	1,812.6	140	234.08
-10	55,298	70	1,751.6	141	228.50
-9	52,380			142	223.08
-8	49,633			143	217.80
-7	47,047			144	212.68
-6	44,610			145	207.70
-5	42,314.6			146	202.86
-4	40,149.5			147	198.15
-3	38,108.5			148	193.57
-2	36,182.8			149	189.12
-1	34,366.1			150	184.79

10K4A1B

10 000 Ohms @ 25°C ±0.2° 0°C to +70°C

Temp. (°C)	R Value (Ohms)	Temp (°C)	R Value (Ohms)	Temp. (°C)	R Value (Ohms)
-80		0	29,490	71	1,928
-79		1	28,157	72	1,868
-78		2	26,891	73	1,810
-77		3	25,689	74	1,754
-76		4	24,547	75	1,700
-75		5	23,462	76	1,648
-74		6	22,430	77	1,598
-73		7	21,450	78	1,550
-72		8	20,517	79	1,503
-71		9	19,631	80	1,458
-70		10	18,787	81	1,414
-69		11	17,983	82	1,372
-68		12	17,219	83	1,332
-67		13	16,490	84	1,293
-66		14	15,797	85	1,255
-65		15	15,136	86	1,218
-64		16	14,507	87	1,183
-63		17	13,906	88	1,149
-62		18	13,334	89	1,116
-61		19	12,788	90	1,084
-60		20	12,268	91	1,053
-59		21	11,771	92	1,023
-58		22	11,297	93	994.5
-57		23	10,845	94	966.6
-56		24	10,413	95	939.6
-55	608,583	**25**	**10,000**	96	913.5
-54	570,307	26	9,606	97	888.2
-53	534,660	27	9,229	98	863.8
-52	501,462	28	8,869	99	840.1
-51	470,511	29	8,525	100	817.2
-50	441,667	30	8,197	101	795.0
-49	414,755	31	7,882	102	773.5
-48	389,650	32	7,581	103	752.7
-47	366,209	33	7,293	104	732.6
-46	344,314	34	7,018	105	713.0
-45	323,859	35	6,754	106	694.1
-44	304,743	36	6,501	107	675.8
-43	286,859	37	6,260	108	658.0
-42	270,136	38	6,028	109	640.8
-41	254,485	39	5,806	110	624.1
-40	239,831	40	5,594	111	607.9
-39	226,105	41	5,390	112	592.2
-38	213,243	42	5,198	113	577.0
-37	201,187	43	5,007	114	562.2
-36	189,887	44	4,828	115	547.9
-35	179,280	45	4,656	116	534.0
-34	169,330	46	4,490	117	520.6
-33	159,990	47	4,332	118	507.5
-32	151,219	48	4,180	119	494.8
-31	142,978	49	4,034	120	482.5
-30	135,233	50	3,893	121	470.5
-29	127,952	51	3,759	122	458.9
-28	121,104	52	3,629	123	447.6
-27	114,662	53	3,505	124	436.7
-26	108,599	54	3,386	125	426.0
-25	102,890	55	3,271	126	415.7
-24	97,513	56	3,160	127	405.7
-23	92,449	57	3,054	128	395.9
-22	87,675	58	2,952	129	386.4
-21	83,173	59	2,854	130	377.2
-20	78,930	60	2,760	131	368.3
-19	74,926	61	2,669	132	359.6
-18	71,148	62	2,582	133	351.1
-17	67,581	63	2,498	134	342.9
-16	64,212	64	2,417	135	334.9
-15	61,030	65	2,339	136	327.1
-14	58,024	66	2,264	137	319.6
-13	55,182	67	2,191	138	312.2
-12	52,495	68	2,122	139	305.1
-11	49,954	69	2,055	140	298.1
-10	47,549	70	1,990	141	291.4
-9	45,274			142	284.8
-8	43,119			143	278.4
-7	41,079			144	272.1
-6	39,147			145	266.0
-5	37,316			146	260.1
-4	35,580			147	254.4
-3	33,935			148	248.8
-2	32,375			149	243.3
-1	30,895			150	238.0

30K5A1B

30 000 Ohms @ 25°C ±0.2° 0°C to +70°C

Temp. (°C)	R Value (Ohms)	Temp (°C)	R Value (Ohms)	Temp. (°C)	R Value (Ohms)
-80		0	94,980	71	5,179
-79		1	90,413	72	5,007
-78		2	86,090	73	4,841
-77		3	81,996	74	4,682
-76		4	78,119	75	4,528
-75		5	74,445	76	4,381
-74		6	70,964	77	4,239
-73		7	67,664	78	4,102
-72		8	64,534	79	3,970
-71		9	61,565	80	3,843
-70		10	58,749	81	3,721
-69		11	56,076	82	3,603
-68		12	53,539	83	3,489
-67		13	51,129	84	3,380
-66		14	48,841	85	3,274
-65		15	46,666	86	3,172
-64		16	44,600	87	3,074
-63		17	42,637	88	2,979
-62		18	40,769	89	2,888
-61		19	38,993	90	2,800
-60		20	37,304	91	2,715
-59		21	35,696	92	2,633
-58		22	34,166	93	2,554
-57		23	32,709	94	2,477
-56		24	31,321	95	2,403
-55	2,380,769	**25**	**30,000**	96	2,332
-54	2,221,831	26	28,741	97	2,263
-53	2,074,434	27	27,541	98	2,197
-52	1,937,724	28	26,398	99	2,132
-51	1,810,800	29	25,307	100	2,070
-50	1,692,965	30	24,268	101	2,010
-49	1,583,477	31	23,276	102	1,952
-48	1,481,708	32	22,329	103	1,896
-47	1,387,068	33	21,426	104	1,842
-46	1,299,030	34	20,564	105	1,789
-45	1,217,107	35	19,741	106	1,739
-44	1,140,827	36	18,955	107	1,690
-43	1,069,754	37	18,204	108	1,642
-42	1,003,525	38	17,486	109	1,596
-41	941,778	39	16,801	110	1,552
-40	884,197	40	16,146	111	1,509
-39	830,463	41	15,519	112	1,467
-38	780,300	42	14,920	113	1,427
-37	733,456	43	14,347	114	1,388
-36	689,696	44	13,799	115	1,350
-35	648,789	45	13,274	116	1,314
-34	610,543	46	12,772	117	1,278
-33	574,779	47	12,292	118	1,244
-32	541,398	48	11,831	119	1,211
-31	509,962	49	11,391	120	1,178
-30	480,618	50	10,969	121	1,147
-29	453,134	51	10,564	122	1,117
-28	427,366	52	10,176	123	1,087
-27	403,211	53	9,805	124	1,059
-26	380,561	54	9,449	125	1,031
-25	359,302	55	9,107	126	1,005
-24	339,357	56	8,780	127	978.8
-23	320,629	57	8,466	128	953.6
-22	303,036	58	8,164	129	929.2
-21	286,505	59	7,875	130	905.6
-20	270,968	60	7,597	131	882.6
-19	256,360	61	7,331	132	860.3
-18	242,618	62	7,075	133	838.7
-17	229,695	63	6,829	134	817.7
-16	217,525	64	6,593	135	797.3
-15	206,067	65	6,366	136	777.5
-14	195,277	66	6,148	137	758.3
-13	185,111	67	5,939	138	739.6
-12	175,530	68	5,738	139	721.5
-11	166,495	69	5,544	140	703.9
-10	157,974	70	5,358	141	686.8
-9	149,937			142	670.2
-8	142,352			143	654.1
-7	135,191			144	638.4
-6	128,428			145	623.1
-5	122,041			146	608.3
-4	116,006			147	593.9
-3	110,300			148	579.9
-2	104,907			149	566.3
-1	99,806			150	553.0

30K6A1B

30 000 Ohms @ 25°C ±0.2° 0°C to +70°C

Temp. (°C)	R Value (Ohms)	Temp (°C)	R Value (Ohms)	Temp. (°C)	R Value (Ohms)
-80	29,683,550	0	105,305	71	4,483.4
-79	27,090,830	1	99,787	72	4,323.1
-78	24,740,930	2	94,588	73	4,169.2
-77	22,609,770	3	89,689	74	4,021.6
-76	20,676,860	4	85,069	75	3,879.8
-75	18,920,900	5	80,713	76	3,743.8
-74	17,325,230	6	76,604	77	3,613.2
-73	15,874,100	7	72,726	78	3,487.7
-72	14,554,130	8	69,064	79	3,367.0
-71	13,352,130	9	65,608	80	3,251.4
-70	12,257,060	10	62,347	81	3,140.1
-69	11,258,450	11	59,257	82	3,033.3
-68	10,347,660	12	56,346	83	2,930.5
-67	9,516,359	13	53,585	84	2,831.7
-66	8,756,854	14	50,978	85	2,736.7
-65	8,062,708	15	48,511	86	2,645.4
-64	7,428,082	16	46,178	87	2,557.5
-63	6,847,255	17	43,969	88	2,472.9
-62	6,315,525	18	41,877	89	2,391.5
-61	5,828,316	19	39,895	90	2,313.2
-60	5,381,736	20	38,019	91	2,237.8
-59	4,972,029	21	36,240	92	2,165.2
-58	4,596,241	22	34,554	93	2,095.3
-57	4,251,001	23	32,955	94	2,028.0
-56	3,933,851	24	31,438	95	1,963.2
-55	3,642,297	**25**	**30,000**	96	1,900.7
-54	3,374,123	26	28,635	97	1,840.5
-53	3,127,359	27	27,339	98	1,782.5
-52	2,900,141	28	26,108	99	1,726.6
-51	2,690,822	29	24,939	100	1,672.7
-50	2,497,829	30	23,828	101	1,620.7
-49	2,319,849	31	22,773	102	1,570.6
-48	2,155,662	32	21,770	103	1,522.3
-47	2,004,078	33	20,816	104	1,475.6
-46	1,864,043	34	19,909	105	1,430.6
-45	1,734,646	35	19,046	106	1,387.2
-44	1,615,012	36	18,226	107	1,345.3
-43	1,504,321	37	17,444	108	1,304.9
-42	1,401,886	38	16,700	109	1,265.8
-41	1,307,057	39	15,992	110	1,228.1
-40	1,219,169	40	15,317	111	1,191.7
-39	1,137,708	41	14,674	112	1,156.5
-38	1,062,201	42	14,062	113	1,122.5
-37	992,141	43	13,478	114	1,089.7
-36	927,112	44	12,921	115	1,058.0
-35	866,735	45	12,390	116	1,027.3
-34	810,638	46	11,884	117	997.7
-33	758,498	47	11,400	118	969.1
-32	710,018	48	10,939	119	941.3
-31	664,917	49	10,499	120	914.6
-30	622,944	50	10,079	121	888.6
-29	583,864	51	9,677.6	122	863.6
-28	547,457	52	9,294.4	123	839.4
-27	513,542	53	8,928.1	124	815.9
-26	481,921	54	8,578.1	125	793.2
-25	152,430	55	8,243.6	126	771.3
-24	424,905	56	7,923.8	127	750.0
-23	399,222	57	7,618.0	128	729.4
-22	375,228	58	7,325.3	129	709.5
-21	352,814	59	7,045.5	130	690.2
-20	331,876	60	6,777.7	131	671.5
-19	312,294	61	6,521.5	132	653.4
-18	293,980	62	6,276.1	133	635.9
-17	276,843	63	6,041.2	134	618.9
-16	260,805	64	5,816.2	135	602.4
-15	245,785	65	5,600.6	136	586.5
-14	231,716	66	5,394.2	137	571.0
-13	218,526	67	5,196.3	138	556.0
-12	206,168	68	5,006.7	139	541.5
-11	194,575	69	4,825.0	140	527.4
-10	183,697	70	4,650.6	141	513.7
-9	173,488			142	500.5
-8	163,907			143	487.6
-7	154,905			144	475.2
-6	146,448			145	463.0
-5	138,502			146	451.3
-4	131,030			147	439.9
-3	124,003			148	428.9
-2	117,390			149	418.1
-1	111,165			150	407.7

50K6A1B

50 000 Ω @ 25 °C ±0.2° 0 °C to +70 °C

Temp. (°C)	R-Wert (Ohms)	Temp (°C)	R-Wert (Ohms)	Temp. (°C)	R-Wert (Ohms)
-80		0	175,508	71	7,472.2
-79		1	166,310	72	7,205.0
-78		2	157,644	73	6,948.5
-77		3	149,480	74	6,702.3
-76		4	141,779	75	6,466.1
-75		5	134,521	76	6,239.3
-74		6	127,669	77	6,021.6
-73		7	121,207	78	5,812.5
-72		8	115,105	79	5,611.7
-71		9	109,344	80	5,418.7
-70		10	103,903	81	5,233.2
-69		11	98,761	82	5,055.0
-68		12	93,901	83	4,883.8
-67		13	89,307	84	4,719.1
-66		14	84,962	85	4,560.7
-65		15	80,851	86	4,408.4
-64		16	76,961	87	4,261.9
-63		17	73,280	88	4,120.9
-62		18	69,794	89	3,985.4
-61		19	66,492	90	3,854.8
-60		20	63,364	91	3,729.2
-59		21	60,400	92	3,608.2
-58		22	57,589	93	3,491.7
-57		23	54,925	94	3,379.5
-56		24	52,398	95	3,271.4
-55	6,081,436	**25**	**50,000**	96	3,167.3
-54	5,633,225	26	47,724	97	3,066.9
-53	5,220,802	27	45,564	98	2,970.3
-52	4,841,088	28	43,513	99	2,877.0
-51	4,491,300	29	41,565	100	2,787.2
-50	4,168,934	30	39,714	101	2,700.5
-49	3,871,700	31	37,956	102	2,617.0
-48	3,597,413	32	36,283	103	2,536.4
-47	3,344,182	33	34,695	104	2,458.7
-46	3,110,277	34	33,183	105	2,383.7
-45	2,894,227	35	31,744	106	2,311.3
-44	2,694,439	36	30,376	107	2,241.4
-43	2,509,656	37	29,074	108	2,174.0
-42	2,338,634	38	27,834	109	2,108.9
-41	2,180,318	39	26,653	110	2,046.1
-40	2,033,606	40	25,529	111	1,985.4
-39	1,897,671	41	24,457	112	1,926.7
-38	1,771,643	42	23,436	113	1,870.1
-37	1,654,711	43	22,463	114	1,815.4
-36	1,546,208	44	21,535	115	1,762.5
-35	1,445,422	45	20,650	116	1,711.4
-34	1,351,835	46	19,807	117	1,662.0
-33	1,264,836	47	19,001	118	1,614.3
-32	1,183,950	48	18,233	119	1,568.1
-31	1,108,711	49	17,499	120	1,523.4
-30	1,038,697	50	16,799	121	1,480.3
-29	973,503	51	16,130	122	1,438.5
-28	912,784	52	15,491	123	1,398.1
-27	856,200	53	14,881	124	1,359.0
-26	803,455	54	14,297	125	1,321.2
-25	754,265	55	13,740	126	1,284.6
-24	708,373	56	13,207	127	1,249.2
-23	665,530	57	12,697	128	1,214.9
-22	625,540	58	12,209	129	1,181.6
-21	588,164	59	11,743	130	1,149.5
-20	553,243	60	11,297	131	1,118.3
-19	520,587	61	10,869	132	1,088.2
-18	490,050	62	10,460	133	1,058.9
-17	461,478	63	10,069	134	1,030.6
-16	434,729	64	9,693.9	135	1,003.2
-15	409,689	65	9,334.5	136	976.6
-14	386,232	66	8,990.4	137	950.8
-13	364,246	67	8,660.6	138	925.9
-12	343,638	68	8,344.6	139	901.6
-11	324,312	69	8,041.5	140	878.2
-10	306,183	70	7,750.9	141	855.4
-9	289,160			142	833.3
-8	273,188			143	811.9
-7	258,186			144	791.1
-6	244,089			145	771.0
-5	230,842			146	751.4
-4	218,386			147	732.4
-3	206,672			148	714.0
-2	195,647			149	696.1
-1	185.274			150	678.8

100K6A1B

100 000 Ω @ 25°C ±0.2° 0°C to +70 °C

Temp. (°C)	R-Wert (Ohms)	Temp (°C)	R-Wert (Ohms)	Temp. (°C)	R-Wert (Ohms)
-80		0	351,017	71	14,944
-79		1	332,619	72	14,410
-78		2	315,288	73	13,897
-77		3	298,959	74	13,405
-76		4	283,558	75	12,932
-75		5	269,041	76	12,479
-74		6	255,337	77	12,043
-73		7	242,414	78	11,625
-72		8	230,210	79	11,223
-71		9	218,688	80	10,837
-70		10	207,807	81	10,466
-69		11	197,521	82	10,110
-68		12	187,803	83	9,767.6
-67		13	178,613	84	9,438.1
-66		14	169,924	85	9,121.4
-65		15	161,702	86	8,816.9
-64		16	153,923	87	8,523.8
-63		17	146,560	88	8,241.9
-62		18	139,588	89	7,970.7
-61		19	132,984	90	7,709.7
-60		20	126,729	91	7,458.3
-59		21	120,799	92	7,216.3
-58		22	115,179	93	6,983.4
-57		23	109,850	94	6,758.9
-56		24	104,796	95	6,542.7
-55	12,162,871	**25**	**100,000**	96	6,334.5
-54	11,266,450	26	95,449	97	6,133.8
-53	10,441,605	27	91,128	98	5,940.5
-52	9,682,176	28	87,026	99	5,754.0
-51	8,982,600	29	83,129	100	5,574.3
-50	8,337,869	30	79,428	101	5,401.1
-49	7,743,400	31	75,912	102	5,234.1
-48	7,194,826	32	72,567	103	5,072.9
-47	6,688,364	33	69,389	104	4,917.3
-46	6,220,553	34	66,365	105	4,767.3
-45	5,788,455	35	63,489	106	4,622.6
-44	5,388,878	36	60,752	107	4,482.9
-43	5,019,313	37	58,149	108	4,348.1
-42	4,677,268	38	55,668	109	4,217.8
-41	4,360,636	39	53,307	110	4,092.1
-40	4,067,212	40	51,058	111	3,970.7
-39	3,795,342	41	48,915	112	3,853.5
-38	3,543,286	42	46,873	113	3,740.2
-37	3,309,422	43	44,927	114	3,630.7
-36	3,092,416	44	43,071	115	3,525.0
-35	2,890,843	45	41,301	116	3,422.8
-34	2,703,671	46	39,613	117	3,324.0
-33	2,529,672	47	38,003	118	3,228.5
-32	2,367,900	48	36,465	119	3,136.2
-31	2,217,423	49	34,999	120	3,046.9
-30	2,077,394	50	33,598	121	2,960.6
-29	1,947,006	51	32,260	122	2,877.0
-28	1,825,568	52	30,983	123	2,796.2
-27	1,712,400	53	29,761	124	2,718.0
-26	1,606,911	54	28,595	125	2,642.4
-25	1,508,530	55	27,479	126	2,569.2
-24	1,416,745	56	26,413	127	2,498.3
-23	1,331,059	57	25,394	128	2,429.7
-22	1,251,079	58	24,419	129	2,363.3
-21	1,176,328	59	23,486	130	2,298.9
-20	1,106,485	60	22,593	131	2,236.7
-19	1,041,173	61	21,739	132	2,176.3
-18	980,100	62	20,921	133	2,117.9
-17	922,956	63	20,138	134	2,061.3
-16	869,458	64	19,388	135	2,006.4
-15	819,378	65	18,669	136	1,953.2
-14	772,463	66	17,981	137	1,901.6
-13	728,492	67	17,321	138	1,851.7
-12	687,276	68	16,689	139	1,803.3
-11	648,624	69	16,083	140	1,756.3
-10	612,366	70	15,502	141	1,710.8
-9	578,321			142	1,666.6
-8	546,376			143	1,623.8
-7	516,372			144	1,582.2
-6	488,178			145	1,541.9
-5	461,683			146	1,502.8
-4	436,773			147	1,464.8
-3	413,344			148	1,428.0
-2	391,294			149	1,392.2
-1	370,547			150	1,357.5

1M9A1B

1 000 000 Ω @ 25°C ±0.2° 0 °C to +70 °C

Temp. (°C)	R-Wert (Ohms)	Temp (°C)	R-Wert (Ohms)	Temp. (°C)	R-Wert (Ohms)
-80		0	3,965,970	71	118,280
-79		1	3,740,810	72	113,490
-78		2	3,529,430	73	108,910
-77		3	3,330,940	74	104,540
-76		4	3,144,560	75	100,360
-75		5	2,969,450	76	96,370
-74		6	2,804,860	77	92,550
-73		7	2,650,190	78	88,900
-72		8	2,504,700	79	85,410
-71		9	2,367,890	80	82,080
-70		10	2,239,180	81	78,890
-69		11	2,118,030	82	75,830
-68		12	2,003,990	83	72,910
-67		13	1,896,630	84	69,120
-66		14	1,795,480	85	67,440
-65		15	1,700,200	86	64,880
-64		16	1,610,400	87	62,430
-63		17	1,525,780	88	60,080
-62		18	1,445,950	89	57,830
-61		19	1,370,690	90	55,670
-60		20	1,299,670	91	53,600
-59		21	1,232,650	92	51,620
-58		22	1,169,400	93	49,720
-57		23	1,109,680	94	47,900
-56		24	1,053,280	95	46,160
-55		**25**	**1,000,000**	96	44,480
-54		26	949,660	97	42,870
-53		27	902,070	98	41,330
-52		28	857,100	99	39,850
-51		29	814,570	100	38,430
-50		30	774,330	101	37,070
-49		31	736,270	102	35,760
-48		32	700,250	103	34,510
-47		33	666,150	104	33,300
-46		34	633,860	105	32,140
-45		35	603,300	106	31,020
-44		36	574,340	107	29,950
-43		37	546,900	108	28,920
-42		38	520,900	109	27,930
-41		39	496,250	110	26,980
-40		40	472,880	111	26,070
-39		41	450,710	112	25,190
-38		42	429,680	113	24,340
-37		43	409,730	114	23,530
-36		44	390,800	115	22,750
-35		45	372,820	116	21,990
-34		46	355,750	117	21,270
-33		47	339,550	118	20,570
-32		48	324,150	119	19,890
-31		49	309,520	120	19,250
-30		50	295,610	121	18,620
-29		51	282,400	122	18,020
-28		52	269,830	123	17,440
-27		53	257,880	124	16,890
-26		54	246,510	125	16,350
-25		55	235,690	126	15,830
-24		56	225,400	127	15,330
-23		57	215,600	128	14,850
-22		58	206,270	129	14,380
-21		59	197,390	130	13,940
-20		60	188,930	131	13,500
-19		61	180,870	132	13,090
-18		62	173,190	133	12,680
-17		63	165,870	134	12,300
-16		64	158,890	135	11,920
-15		65	152,240	136	11,560
-14		66	145,890	137	11,210
-13		67	139,840	138	10,870
-12		68	134,070	139	10,550
-11		69	128,560	140	10,230
-10		70	123,300	141	9,930
-9				142	9,640
-8				143	9,350
-7				144	9,080
-6				145	8,820
-5				146	8,560
-4				147	8,310
-3				148	8,070
-2				149	7,840
-1				150	7,620