



Technical Information Data Bulletin

Copper 100 Ohms (Cu100)

α 0.00427

Temperature vs Resistance Table

Resistance @ 0°C

Temperature Range:

-140 to 500°F

-100 to 260°C

TEMPERATURE & PROCESS INSTRUMENTS - CON

Temp	0	-1	-2	-3	-4	-5	-6	-7	-8	-9
-100	56.757									
-90	61.166	60.726	60.286	59.845	59.405	58.964	58.523	58.082	57.640	57.199
-80	65.558	65.120	64.681	64.242	63.803	63.364	62.925	62.486	62.046	61.606
-70	69.932	69.496	69.059	68.622	68.185	67.747	67.310	66.872	66.434	65.996
-60	74.289	73.854	73.419	72.984	72.549	72.113	71.677	71.241	70.805	70.369
-50	78.629	78.195	77.762	77.329	76.895	76.461	76.027	75.593	75.158	74.724
-40	82.903	82.475	82.048	81.621	81.193	80.766	80.338	79.911	79.483	79.056
-30	87.177	86.750	86.322	85.895	85.467	85.040	84.613	84.185	83.758	83.330
-20	91.451	91.024	90.597	90.169	89.742	89.314	88.887	88.459	88.032	87.605
-10	95.726	95.298	94.871	94.443	94.016	93.589	93.161	92.734	92.306	91.879
0	100.000	99.573	99.145	98.718	98.290	97.863	97.435	97.008	96.581	96.153
Temp	0	1	2	3	4	5	6	7	8	9
0	100.000	100.427	100.855	101.282	101.710	102.137	102.565	102.992	103.419	103.847
10	104.274	104.702	105.129	105.557	105.984	106.411	106.839	107.266	107.694	108.121
20	108.549	108.976	109.403	109.831	110.258	110.686	111.113	111.541	111.968	112.395
30	112.823	113.250	113.678	114.105	114.533	114.960	115.387	115.815	116.242	116.670
40	117.097	117.525	117.952	118.379	118.807	119.234	119.662	120.089	120.517	120.944
50	121.372	121.799	122.226	122.654	123.081	123.509	123.936	124.364	124.791	125.218
60	125.646	126.073	126.501	126.928	127.356	127.783	128.210	128.638	129.065	129.493
70	129.920	130.348	130.775	131.202	131.630	132.057	132.485	132.912	133.340	133.767
80	134.194	134.622	135.049	135.477	135.904	136.332	136.759	137.186	137.614	138.041
90	138.469	138.896	139.324	139.751	140.178	140.606	141.033	141.461	141.888	142.316
100	142.743	143.170	143.598	144.025	144.453	144.880	145.308	145.735	146.162	146.590
110	147.017	147.445	147.872	148.300	148.727	149.154	149.582	150.009	150.437	150.864
120	151.292	151.719	152.146	152.574	153.001	153.429	153.856	154.284	154.711	155.138
130	155.566	155.993	156.421	156.848	157.276	157.703	158.130	158.558	158.985	159.413
140	159.840	160.268	160.695	161.122	161.550	161.977	162.405	162.832	163.260	163.687
150	164.114	164.546	164.977	165.408	165.839	166.270	166.701	167.132	167.563	167.994
160	168.425	168.856	169.287	169.718	170.149	170.581	171.012	171.443	171.874	172.305
170	172.736	173.167	173.599	174.030	174.461	174.892	175.323	175.755	176.186	176.617
180	177.048	177.480	177.911	178.342	178.773	179.205	179.636	180.067	180.499	180.930
190	181.361	181.793	182.224	182.655	183.087	183.518	183.949	184.381	184.812	185.244
200	185.675	186.106	186.538	186.969	187.401	187.832	188.264	188.695	189.127	189.558
210	189.990	190.421	190.853	191.284	191.716	192.147	192.579	193.010	193.442	193.873
220	194.305	194.736	195.168	195.600	196.031	196.463	196.894	197.326	197.758	198.189
230	198.621	199.053	199.484	199.916	200.348	200.779	201.211	201.643	202.074	202.506
240	202.938	203.370	203.801	204.233	204.665	205.097	205.528	205.960	206.392	206.824
250	207.256	207.687	208.119	208.551	208.983	209.415	209.847	210.278	210.710	211.142
260	211.574									