



# SPECIFICATION FOR APPROVAL

## 技术规格确认书

客户名称 Customer	
客户料号 Customer PN	
产品类型 Product Model	Platinum Resistance
型号规格 Part Number	Pt102B-xxx L20D6S13X
文控编号 Specification file No.	
版本号 Version	V1

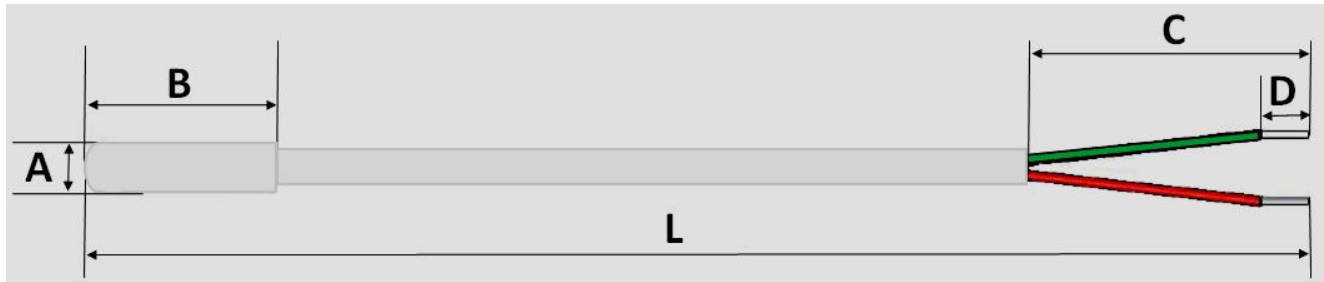
	DES.	CHK.	APP.
Manu.	RH LIANG	HO ZHANG	DZ LIN
User			

This Specification indicates the parameters, electrical properties, test condition, structure and dimension of the NTC Thermistors and Temperature Sensors manufactured by RTsensor . it is sincerely for your confirmation got the spec. and accept as our company's standard.

Any doubt, please contact us in due course, or if you change the usage of the products, or if the operational environment changed evidently, please inform us.



## 1、 Dimension (Unit: mm)



Dimension				
A	B	C	D	L
6.5±0.5	20±1	20±5	3±1	as required

## 2、 Material Explanation

NO	Material Name	Material and Specifications
2-1	Element	Platinum Resistance: Pt1000 (Class B)
2-2	Coating	NTC encapsulated using PVC over-mold material (White)
2-3	Cable features	UL2464-26AWG Tin plated copper cable with white PVC flat jacket wire 80°C 300V
2-4	Wire ends	Tinned

## 3、 Part Number :

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- (1) PT Series;
- (2) Resistance tolerance (%);
- (3) Length Sign (unit is mm) ;
- (4) Front end (head) size;
- (5) Special code ;

## 4、 Performance Specs:

P/N	Nominal resistance at 0°C(Ω)	Resistance Tolerance at 0°C	Tolerance grade	Withstand voltage test (Sec)	Insulation resistance (MΩ)	Operating temp. range
Pt1000	1000	±0.30°C	B	Shell and wires between AC1500V for 2S, no breakdown, flashover phenomenon	Between the shell and wires DC500V, water > 100MΩ insulation resistance measurement	-30°C ~ 85°C

## 5、R-T Table

Pt1000 Resistance Temperature Table										
0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	
-50	803.063									
-49	807.033	806.604	806.239	805.842	805.445	805.048	804.651	804.254	803.857	803.460
-48	811.003	810.606	810.209	809.812	809.415	809.018	808.621	808.224	807.827	807.430
-47	814.970	814.573	814.177	813.780	813.383	812.987	812.590	812.193	811.796	811.400
-46	818.937	818.540	818.144	817.747	817.350	816.954	816.557	816.160	815.763	815.367
-45	822.902	822.506	822.109	821.713	821.316	820.920	820.523	820.127	819.730	819.334
-44	826.865	826.469	826.072	825.676	825.280	824.884	824.487	824.091	823.695	823.298
-43	830.828	830.432	830.035	829.639	829.243	828.847	828.450	828.054	827.658	827.261
-42	834.789	834.393	833.997	833.601	833.205	832.809	832.412	832.016	831.620	831.224
-41	838.748	838.352	837.956	837.560	837.164	836.769	836.373	835.977	835.581	835.185
-40	842.707	842.311	841.915	841.519	841.123	840.728	840.332	839.936	839.540	839.144
-39	846.664	846.268	845.873	845.477	845.081	844.686	844.290	843.894	843.498	843.103
-38	850.619	850.224	849.828	849.433	849.037	848.642	848.246	847.851	847.455	847.060
-37	854.573	854.179	853.783	853.388	852.992	852.597	852.201	851.806	851.410	851.015
-36	858.526	858.131	857.735	857.340	856.945	856.550	856.154	855.759	855.364	854.968
-35	862.478	862.082	861.688	861.292	860.897	860.502	860.107	859.712	859.316	858.921
-34	866.428	866.033	865.638	865.243	864.848	864.453	864.058	863.663	863.268	862.873
-33	870.377	869.982	869.587	869.192	868.797	868.403	868.008	867.613	867.218	866.823
-32	874.325	873.930	873.535	873.141	872.746	872.351	871.956	871.561	871.166	870.772
-31	878.272	877.877	877.483	877.088	876.693	876.299	875.904	875.509	875.114	874.720
-30	882.217	881.823	881.428	881.034	880.639	880.245	879.850	879.456	879.061	878.667
-29	886.161	885.766	885.372	884.978	884.583	884.189	883.795	883.400	883.006	882.611
-28	890.103	889.709	889.315	888.920	888.526	888.132	887.738	887.344	886.949	886.555
-27	894.044	893.650	893.256	892.862	892.468	892.074	891.679	891.285	890.891	890.497
-26	897.985	897.591	897.197	896.803	896.409	896.015	895.620	895.226	894.832	894.438
-25	901.923	901.529	901.135	900.742	900.348	899.954	899.560	899.166	898.773	898.379
-24	905.861	905.467	905.073	904.680	904.286	903.892	903.498	903.104	902.711	902.317
-23	909.798	909.404	909.011	908.617	908.223	907.830	907.436	907.042	906.648	906.255
-22	913.733	913.340	912.946	912.553	912.159	911.766	911.372	910.979	910.585	910.192
-21	917.666	917.273	916.879	916.486	916.093	915.700	915.306	914.913	914.520	914.126
-20	921.599	921.206	920.812	920.419	920.026	919.633	919.239	918.846	918.453	918.059
-19	925.531	925.138	924.745	924.351	923.958	923.565	923.172	922.779	922.385	921.992
-18	929.460	929.067	928.674	928.281	927.888	927.496	927.103	926.710	926.317	925.924
-17	933.390	932.997	932.604	932.211	931.818	931.425	931.032	930.639	930.246	929.853
-16	937.317	936.924	936.532	936.139	935.746	935.354	934.961	934.568	934.175	933.783
-15	941.244	940.851	940.459	940.066	939.673	939.281	938.888	938.495	938.102	937.710
-14	945.170	944.777	944.385	943.992	943.600	943.207	942.814	942.422	942.029	941.637

-13	949.094	948.702	948.309	947.917	947.524	947.132	946.740	946.347	945.955	945.562
-12	953.016	952.624	952.232	951.839	951.447	951.055	950.663	950.271	949.878	949.486
-11	956.938	956.546	956.154	955.761	955.369	954.977	954.585	954.193	953.800	953.408
-10	960.859	960.467	960.075	959.683	959.291	958.899	958.506	958.114	957.722	957.330
-9	964.779	964.387	963.995	963.603	963.211	962.819	962.427	962.035	961.643	961.251
-8	968.697	968.305	967.913	967.522	967.130	966.738	966.346	965.954	965.563	965.171
-7	972.614	972.222	971.831	971.439	971.047	970.656	970.264	969.872	969.480	969.089
-6	976.529	976.138	975.746	975.355	974.963	974.572	974.180	973.789	973.397	973.006
-5	980.444	980.053	979.662	979.270	978.879	978.487	978.096	977.704	977.313	976.921
-4	984.358	983.967	983.575	983.184	982.793	982.401	982.010	981.618	981.227	980.835
-3	988.270	987.879	987.488	987.096	986.705	986.314	985.923	985.532	985.140	984.749
-2	992.181	991.790	991.399	991.008	990.617	990.226	989.834	989.443	989.052	988.661
-1	996.091	995.700	995.309	994.918	994.527	994.136	993.745	993.354	992.963	992.572
0	1000.000	1000.391	1000.782	1001.172	1001.563	1001.954	1002.345	1002.736	1003.126	1003.517
1	1003.908	1004.298	1004.689	1005.080	1005.470	1005.861	1006.252	1006.642	1007.033	1007.424
2	1007.814	1008.205	1008.595	1008.986	1009.377	1009.767	1010.158	1010.548	1010.939	1011.329
3	1011.720	1012.110	1012.501	1012.891	1013.282	1013.672	1014.062	1014.453	1014.843	1015.234
4	1015.624	1016.014	1016.405	1016.795	1017.185	1017.576	1017.966	1018.356	1018.747	1019.137
5	1019.527	1019.917	1020.308	1020.698	1021.088	1021.478	1021.868	1022.259	1022.649	1023.039
6	1023.429	1023.819	1024.209	1024.599	1024.989	1025.380	1025.770	1026.160	1026.550	1026.940
7	1027.330	1027.720	1028.110	1028.500	1028.890	1029.280	1029.670	1030.060	1030.450	1030.840
8	1031.229	1031.619	1032.009	1032.399	1032.789	1033.179	1033.569	1033.958	1034.348	1034.738
9	1035.128	1035.518	1035.907	1036.297	1036.687	1037.077	1037.466	1037.856	1038.246	1038.636
10	1039.025	1039.415	1039.805	1040.194	1040.584	1040.973	1041.363	1041.753	1042.142	1042.532
11	1042.921	1043.311	1043.701	1044.090	1044.480	1044.869	1045.259	1045.648	1046.038	1046.427
12	1046.816	1047.206	1047.595	1047.985	1048.374	1048.764	1049.153	1049.542	1049.932	1050.321
13	1050.710	1051.099	1051.489	1051.878	1052.268	1052.657	1053.046	1053.435	1053.825	1054.214
14	1054.603	1054.992	1055.381	1055.771	1056.160	1056.549	1056.938	1057.327	1057.716	1058.105
15	1058.495	1058.884	1059.273	1059.662	1060.051	1060.440	1060.829	1061.218	1061.607	1061.996
16	1062.385	1062.774	1063.163	1063.552	1063.941	1064.330	1064.719	1065.108	1065.496	1065.885
17	1066.274	1066.663	1067.052	1067.441	1067.830	1068.218	1068.607	1068.996	1069.385	1069.774
18	1070.162	1070.551	1070.940	1071.328	1071.717	1072.106	1072.495	1072.883	1073.272	1073.661
19	1074.049	1074.438	1074.826	1075.215	1075.604	1075.992	1076.381	1076.769	1077.158	1077.546
20	1077.935	1078.324	1078.712	1079.101	1079.489	1079.877	1080.266	1080.654	1081.043	1081.431
21	1081.820	1082.208	1082.596	1082.985	1083.373	1083.762	1084.150	1084.538	1084.926	1085.315
22	1085.703	1086.091	1086.480	1086.868	1087.256	1087.644	1088.033	1088.421	1088.809	1089.197
23	1089.585	1089.974	1090.362	1090.750	1091.138	1091.526	1091.914	1092.302	1092.690	1093.078
24	1093.467	1093.855	1094.243	1094.631	1095.019	1095.407	1095.795	1096.183	1096.571	1096.959
25	1097.347	1097.734	1098.122	1098.510	1098.898	1099.286	1099.674	1100.062	1100.450	1100.838
26	1101.225	1101.613	1102.001	1102.389	1102.777	1103.164	1103.552	1103.940	1104.328	1104.715

27	1105.103	1105.491	1105.879	1106.266	1106.654	1107.042	1107.429	1107.817	1108.204	1108.592
28	1108.980	1109.367	1109.755	1110.142	1110.530	1110.917	1111.305	1111.693	1112.080	1112.468
29	1112.855	1113.242	1113.630	1114.017	1114.405	1114.792	1115.180	1115.567	1115.954	1116.342
30	1116.729	1117.117	1117.504	1117.891	1118.279	1118.666	1119.053	1119.441	1119.828	1120.215
31	1120.602	1120.990	1121.377	1121.764	1122.151	1122.538	1122.926	1123.313	1123.700	1124.087
32	1124.474	1124.861	1125.248	1125.636	1126.023	1126.410	1126.797	1127.184	1127.571	1127.958
33	1128.345	1128.732	1129.119	1130.127	1129.893	1130.280	1130.667	1131.054	1131.441	1131.828
34	1132.215	1132.602	1132.988	1133.375	1133.762	1134.149	1134.536	1134.923	1135.309	1135.696
35	1136.083	1136.470	1136.857	1137.243	1137.630	1138.017	1138.404	1138.790	1139.177	1139.564
36	1139.950	1140.337	1140.724	1141.110	1141.497	1141.884	1142.270	1142.657	1143.043	1143.430
37	1143.817	1144.203	1144.590	1144.976	1145.363	1145.749	1146.136	1146.522	1146.909	1147.295
38	1147.681	1148.068	1148.454	1148.841	1149.227	1149.614	1150.000	1150.386	1150.773	1151.159
39	1151.545	1151.932	1152.318	1152.704	1153.091	1153.477	1153.863	1154.249	1154.636	1155.022
40	1155.408	1155.794	1156.180	1156.567	1156.953	1157.339	1157.725	1158.111	1158.497	1158.883
41	1159.270	1159.656	1160.042	1160.428	1160.814	1161.200	1161.586	1161.972	1162.358	1162.744
42	1163.130	1163.516	1163.902	1164.288	1164.674	1165.060	1165.446	1165.831	1166.217	1166.603
43	1166.989	1167.375	1167.761	1168.147	1168.532	1168.918	1169.304	1169.690	1170.076	1170.461
44	1170.847	1171.233	1171.619	1172.004	1172.390	1172.776	1173.161	1173.547	1173.933	1174.318
45	1174.704	1175.090	1175.475	1175.861	1176.247	1176.632	1177.018	1177.403	1177.789	1178.174
46	1178.560	1178.945	1179.331	1179.716	1180.102	1180.487	1180.873	1181.258	1181.644	1182.029
47	1182.414	1182.800	1183.185	1183.571	1183.956	1184.341	1184.727	1185.112	1185.497	1185.883
48	1186.268	1186.653	1187.038	1187.424	1187.809	1188.194	1188.579	1188.965	1189.350	1189.735
49	1190.120	1190.505	1190.890	1191.276	1191.661	1192.046	1192.431	1192.816	1193.201	1193.586
50	1193.971	1194.356	1194.741	1195.126	1195.511	1195.896	1196.281	1196.666	1197.051	1197.436
51	1197.821	1198.206	1198.591	1198.976	1199.361	1199.746	1200.131	1200.516	1200.900	1201.285
52	1201.670	1202.055	1202.440	1202.824	1203.209	1203.594	1203.979	1204.364	1204.748	1205.133
53	1205.518	1205.902	1206.287	1206.672	1207.056	1207.441	1207.826	1208.210	1208.595	1208.980
54	1209.364	1209.749	1210.133	1210.518	1210.902	1211.287	1211.672	1212.056	1212.441	1212.825
55	1213.210	1213.594	1213.978	1214.363	1214.747	1215.120	1215.516	1215.901	1216.285	1216.669
56	1217.054	1217.438	1217.822	1218.207	1218.591	1218.975	1219.360	1219.744	1220.128	1220.513
57	1220.897	1221.281	1221.665	1222.049	1222.434	1222.818	1223.202	1223.586	1223.970	1224.355
58	1224.739	1225.123	1225.507	1225.891	1226.275	1226.659	1227.043	1227.427	1227.811	1228.195
59	1228.579	1228.963	1229.347	1229.731	1230.115	1230.499	1230.883	1231.267	1231.651	1232.035
60	1232.419	1232.803	1233.187	1233.571	1233.955	1234.338	1234.722	1235.106	1235.490	1235.874
61	1236.257	1236.641	1237.025	1237.409	1237.792	1238.176	1238.560	1238.944	1239.327	1239.711
62	1240.095	1240.478	1240.862	1241.246	1241.629	1242.013	1242.396	1242.780	1243.164	1243.547
63	1243.931	1244.314	1244.698	1245.081	1245.465	1245.848	1246.232	1246.615	1246.999	1247.382
64	1247.766	1248.149	1248.533	1248.916	1249.299	1249.683	1250.066	1250.450	1250.833	1251.216
65	1251.600	1251.983	1252.366	1252.749	1253.133	1253.516	1253.899	1254.283	1254.666	1255.049
66	1255.432	1255.815	1256.199	1256.582	1256.965	1257.348	1257.731	1258.114	1258.497	1258.881

67	1259.264	1259.647	1260.030	1260.413	1260.796	1261.179	1261.562	1261.945	1262.328	1262.711
68	1263.094	1263.477	1263.860	1264.243	1264.626	1265.009	1265.392	1265.775	1266.157	1266.540
69	1266.923	1267.306	1267.689	1268.072	1268.455	1268.837	1269.220	1269.603	1269.986	1270.368
70	1270.751	1271.134	1271.517	1271.899	1272.282	1272.665	1273.048	1273.430	1273.813	1274.195
71	1274.578	1274.961	1274.803	1274.916	1275.029	1275.141	1275.254	1275.366	1275.479	1275.591
72	1278.404	1278.786	1279.169	1279.551	1279.934	1280.316	1280.699	1281.081	1281.464	1281.846
73	1282.228	1282.611	1282.993	1283.376	1283.758	1284.140	1284.523	1284.905	1285.287	1285.670
74	1286.052	1286.434	1286.816	1287.199	1287.581	1287.963	1288.345	1288.728	1289.110	1289.492
75	1289.874	1290.256	1290.638	1291.021	1291.403	1291.785	1292.167	1292.549	1292.931	1293.313
76	1293.695	1294.077	1294.459	1294.841	1295.223	1295.605	1295.987	1296.369	1296.751	1297.133
77	1297.515	1297.897	1298.279	1298.661	1299.043	1299.425	1299.807	1300.188	1300.570	1300.952
78	1301.334	1301.716	1302.098	1302.479	1302.861	1303.243	1303.625	1304.006	1304.388	1304.770
79	1305.152	1305.533	1305.915	1306.297	1306.678	1307.060	1307.442	1307.823	1308.205	1308.586
80	1308.968	1309.350	1309.731	1310.113	1310.494	1310.876	1311.257	1311.639	1312.020	1312.402
81	1312.783	1313.165	1313.546	1313.928	1314.309	1314.691	1315.072	1315.453	1315.835	1316.216
82	1316.597	1316.979	1317.360	1317.742	1318.123	1318.504	1318.885	1319.267	1319.648	1320.029
83	1320.411	1320.792	1321.173	1321.554	1321.935	1322.316	1322.697	1323.079	1323.460	1323.841
84	1324.222	1324.603	1324.985	1325.366	1325.747	1326.128	1326.509	1326.890	1327.271	1327.652
85	1328.033	1328.414	1328.795	1329.176	1329.557	1329.938	1330.319	1330.700	1331.081	1331.462
86	1331.843	1332.224	1332.604	1332.985	1333.366	1333.747	1334.128	1334.509	1334.889	1335.270
87	1335.651	1336.032	1336.413	1336.793	1337.174	1337.555	1337.935	1338.316	1338.697	1339.078
88	1339.458	1339.839	1340.220	1340.600	1340.981	1341.361	1341.742	1342.123	1342.503	1342.884
89	1343.264	1343.645	1344.025	1344.406	1344.786	1345.167	1345.547	1345.928	1346.308	1346.689
90	1347.069	1347.450	1347.830	1348.211	1348.591	1348.971	1349.352	1349.732	1350.112	1350.493
91	1350.873	1351.253	1351.634	1352.014	1352.394	1352.774	1353.155	1353.535	1353.915	1354.295
92	1354.676	1355.056	1355.436	1355.816	1356.196	1356.577	1356.957	1357.337	1357.717	1358.097
93	1358.477	1358.857	1359.237	1359.617	1359.997	1360.377	1360.757	1361.137	1361.517	1361.897
94	1362.277	1362.657	1363.037	1363.417	1363.797	1364.177	1364.557	1364.937	1365.317	1365.697
95	1366.077	1366.456	1366.836	1367.216	1367.596	1367.976	1368.355	1368.735	1369.115	1369.495
96	1369.875	1370.254	1370.634	1371.014	1371.393	1371.773	1372.153	1372.532	1372.912	1373.292
97	1373.671	1374.051	1374.431	1374.810	1375.190	1375.569	1375.949	1376.329	1376.708	1377.088
98	1377.467	1377.847	1378.226	1378.606	1378.985	1379.365	1379.744	1380.123	1380.503	1380.882
99	1381.262	1381.641	1382.020	1382.400	1382.779	1383.158	1383.538	1383.917	1384.296	1384.676
100	1385.055									
0	1	2	3	4	5	6	7	8	9	
100	1385.055	1388.847	1392.638	1396.428	1400.217	1404.005	1407.791	1411.576	1415.360	1419.143
110	1422.925	1426.706	1430.485	1434.264	1438.041	1441.817	1445.592	1449.366	1453.138	1456.910
120	1460.680	1464.449	1468.217	1471.984	1475.750	1479.514	1483.277	1487.040	1490.801	1494.561
130	1498.319	1502.077	1505.833	1509.589	1513.343	1517.096	1520.847	1524.598	1528.348	1532.100
140	1535.843	1539.589	1543.334	1547.078	1550.820	1554.562	1558.302	1562.041	1565.779	1569.516

150	1573.251	1576.986	1580.719	1584.451	1588.182	1591.912	1595.641	1599.368	1603.094	1606.820
160	1610.544	1614.267	1617.989	1621.709	1625.429	1629.147	1632.864	1636.580	1640.295	1644.009
170	1647.721	1651.433	1655.143	1658.852	1662.560	1666.267	1669.972	1673.677	1677.380	1681.082
180	1684.783	1688.483	1692.181	1695.879	1699.575	1703.271	1706.965	1710.658	1714.349	1718.040
190	1721.729	1725.418	1729.105	1732.791	1736.475	1740.159	1743.842	1747.523	1751.203	1754.882
200	1758.560	1762.237	1765.912	1769.587	1773.260	1776.932	1780.603	1784.273	1787.941	1791.610
210	1795.275	1798.940	1802.604	1806.267	1809.929	1813.590	1817.249	1820.907	1824.564	1828.220
220	1831.875	1835.529	1839.181	1842.832	1846.483	1850.132	1853.779	1857.426	1861.072	1864.716
230	1868.359	1872.001	1875.642	1879.282	1882.921	1886.558	1890.194	1893.830	1897.463	1901.096
240	1904.728	1908.359	1911.988	1915.616	1919.243	1922.869	1926.494	1930.117	1933.740	1937.361
250	1940.981	1944.600	1948.218	1951.835	1955.450	1959.065	1962.678	1966.290	1969.901	1973.510
260	1977.119	1980.726	1984.333	1987.938	1991.542	1995.145	1998.746	2002.347	2005.946	2009.544
270	2013.141	2016.737	2020.332	2023.925	2027.518	2031.109	2034.699	2038.288	2041.876	2045.463
280	2049.048	2052.632	2056.215	2059.798	2063.378	2066.958	2070.537	2074.114	2077.690	2081.265
290	2084.839	2088.412	2091.984	2095.554	2099.123	2102.692	2106.259	2109.824	2113.389	2116.953
300	2120.515									

## 6. Ordering Information

Part Number	Description	@0°C	MOQ
Pt102B-202L20D6S13X	PVC sheath wire, Housing $\Phi 6*20$ mm, Length 2 meter	1000 $\Omega$	1000
Pt102B-302L20D6S13X	PVC sheath wire, Housing $\Phi 6*20$ mm, Length 3 meter	1000 $\Omega$	1000
Pt102B-502L20D6S13X	T PVC sheath wire, Housing $\Phi 6*20$ mm, Length 5 meter	1000 $\Omega$	1000

\* For quantities less than Minimum Order Quantity - contact distribution.