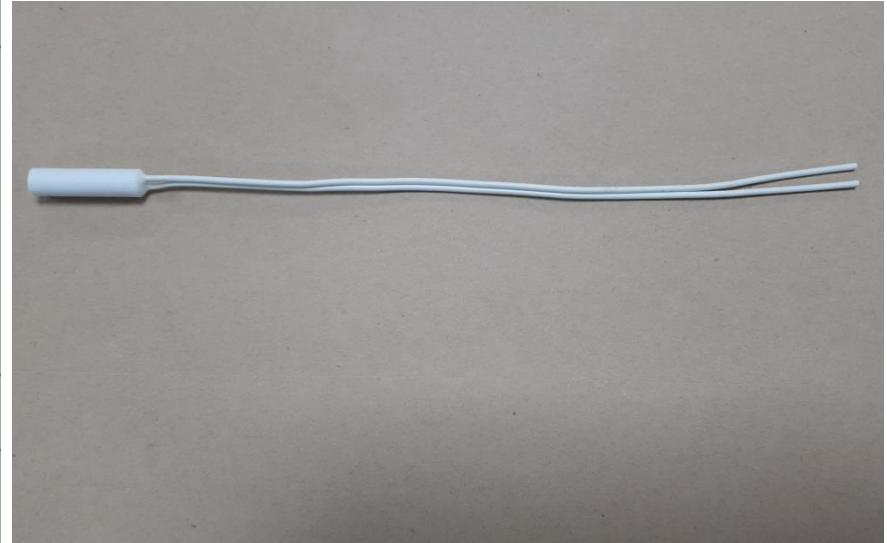


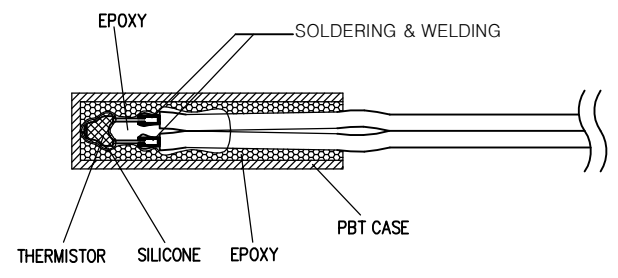
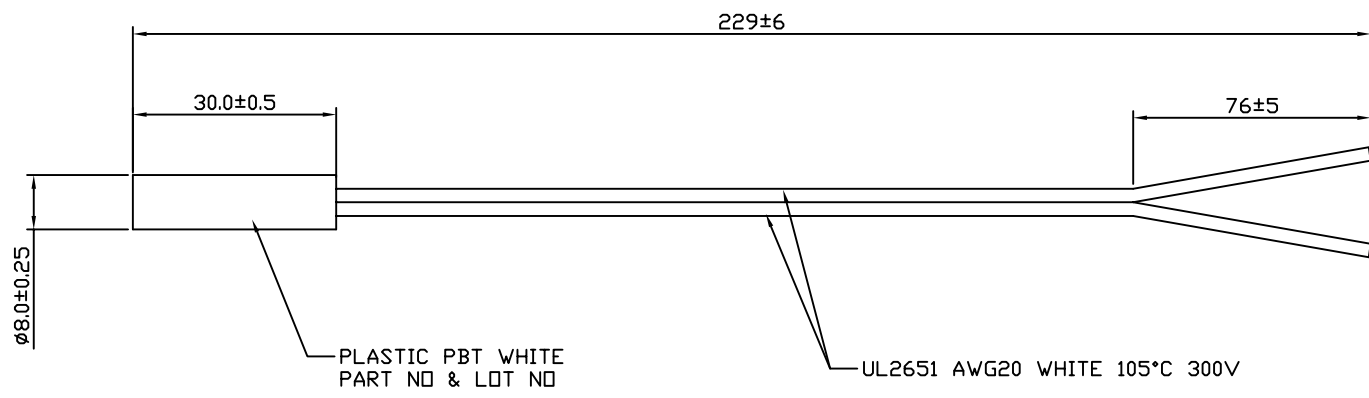
NTC Thermistor Sensors for Refrigeration

Part Number	7601-130001 (9 Inch)	
Application	Temperature Sensing etc.	
Function	<ul style="list-style-type: none"> • Temperature automatic control for defrost and for protecting the frozen rupture in the cold storage or freezing systems • Easy to install at the small or narrow space as slim shape • Small size with high contacting capacitance • Available waterproof and dustproof types with welding vinyl tube on the part 	
Specification	Max Rated Watt	100mW
	Resistance Value	5kΩ±1% @ 25°C
	B(25/85) Value	3970K±1%
	Temperature Range	-40°C to 80°C
	Dielectric Withstand	AC 1.8kV for 1 second
	Insulation Resistance	100MΩ Min.

(Picture)



• Any requirements for Connectors and Lead Wire are acceptable.



- NOTE**
1. OHMIC RESISTANCE $5K\Omega \pm 1\%$ TO TEMPERATURE OF 25°C
 2. B CONSTANT ($25^\circ\text{C}/85^\circ\text{C}$) = $3970k \pm 1\%$
 3. OPERATION TEMPERATURE : -40°C TO 80°C
 4. INSULATION RESISTANCE : $500\text{VDC} / 60\text{s} / 100M\Omega$
 5. DIELECTRIC STRENGTH : $1250\text{VAC} / 60\text{s}$
 6. EXTRACTION RESISTANCE BETWEEN WIRE AND PACKAGE : $3\text{kgf} / 60\text{s}$

1	PARTS NAME						Q'TY	MATERIAL	SPEC	REMARK
NO	DRAWING						CHECKED	APPROVED	NAME	THERMISTOR SENSOR
SCALE	UNIT	TOLERANCE	PRJ 300 PRJ	SIZE A3	S. C. KIM			CODE NO.	7601-130001	
-	mm	-			JUL-27-2015			USER CODE NO.	SINGLE 9INCH SHEET /	

SYM	REVISION	DESCRIPTION	DATE	REVISER	APPROVER

 INCHANG ELECTRONICS CO.,LTD.



R-T data for LNTA 502FW

B25/85 3970 K \pm 1%
R25 5.00 k Ω \pm 1%

T()	Rmin(k Ω)	Rcent(k Ω)	Rmax(k Ω)	DR(%)	DT()
-40	166.5	174.2	182.3	4.65%	0.67
-39	155.6	162.8	170.2	4.58%	0.66
-38	145.6	152.2	159.0	4.51%	0.66
-37	136.3	142.4	148.7	4.44%	0.65
-36	127.6	133.2	139.0	4.37%	0.65
-35	119.6	124.7	130.1	4.30%	0.64
-34	112.1	116.8	121.8	4.23%	0.64
-33	105.1	109.5	114.1	4.17%	0.63
-32	98.63	102.7	106.9	4.10%	0.63
-31	92.59	96.33	100.2	4.03%	0.62
-30	86.96	90.41	94.00	3.97%	0.61
-29	81.70	84.90	88.21	3.90%	0.61
-28	76.80	79.76	82.82	3.84%	0.60
-27	72.23	74.96	77.79	3.77%	0.60
-26	67.96	70.48	73.10	3.71%	0.59
-25	63.97	66.30	68.72	3.64%	0.59
-24	60.23	62.40	64.63	3.58%	0.58
-23	56.75	58.75	60.82	3.52%	0.58
-22	53.48	55.34	57.25	3.46%	0.57
-21	50.43	52.15	53.92	3.40%	0.56
-20	47.57	49.16	50.80	3.34%	0.56
-19	44.89	46.36	47.88	3.27%	0.55
-18	42.38	43.74	45.15	3.21%	0.55
-17	40.02	41.29	42.59	3.15%	0.54
-16	37.81	38.99	40.19	3.10%	0.53
-15	35.74	36.83	37.94	3.04%	0.53
-14	33.79	34.80	35.84	2.98%	0.52
-13	31.96	32.90	33.86	2.92%	0.51
-12	30.24	31.11	32.00	2.86%	0.51
-11	28.63	29.44	30.26	2.81%	0.50
-10	27.11	27.86	28.63	2.75%	0.49
-9	25.68	26.38	27.09	2.69%	0.49
-8	24.34	24.98	25.64	2.64%	0.48
-7	23.07	23.67	24.28	2.58%	0.47
-6	21.88	22.44	23.00	2.53%	0.47
-5	20.76	21.27	21.80	2.47%	0.46
-4	19.70	20.18	20.67	2.42%	0.45
-3	18.70	19.15	19.60	2.37%	0.45
-2	17.76	18.17	18.59	2.31%	0.44
-1	16.87	17.25	17.64	2.26%	0.43
0	16.03	16.39	16.75	2.21%	0.43

T()	Rmin(k Ω)	Rcent(k Ω)	Rmax(k Ω)	DR(%)	DT()
1	15.24	15.57	15.91	2.15%	0.42
2	14.49	14.80	15.11	2.10%	0.41
3	13.79	14.07	14.36	2.05%	0.40
4	13.12	13.38	13.65	2.00%	0.40
5	12.49	12.73	12.98	1.95%	0.39
6	11.89	12.11	12.34	1.90%	0.38
7	11.32	11.53	11.75	1.85%	0.37
8	10.79	10.98	11.18	1.80%	0.37
9	10.28	10.46	10.64	1.75%	0.36
10	9.800	9.968	10.14	1.70%	0.35
11	9.345	9.500	9.657	1.65%	0.34
12	8.914	9.058	9.203	1.60%	0.34
13	8.505	8.638	8.773	1.55%	0.33
14	8.118	8.241	8.365	1.51%	0.32
15	7.750	7.864	7.979	1.46%	0.31
16	7.401	7.506	7.612	1.41%	0.30
17	7.070	7.167	7.265	1.36%	0.30
18	6.755	6.845	6.935	1.32%	0.29
19	6.457	6.539	6.622	1.27%	0.28
20	6.173	6.249	6.326	1.23%	0.27
21	5.903	5.973	6.044	1.18%	0.26
22	5.647	5.711	5.776	1.13%	0.25
23	5.403	5.462	5.522	1.09%	0.24
24	5.171	5.225	5.280	1.04%	0.24
25	4.950	5.000	5.050	1.00%	0.23
26	4.736	4.786	4.836	1.04%	0.24
27	4.532	4.582	4.632	1.09%	0.25
28	4.338	4.388	4.437	1.13%	0.26
29	4.154	4.203	4.252	1.18%	0.27
30	3.978	4.027	4.076	1.22%	0.29
31	3.811	3.859	3.908	1.26%	0.30
32	3.652	3.700	3.748	1.30%	0.31
33	3.500	3.547	3.595	1.35%	0.32
34	3.355	3.402	3.450	1.39%	0.33
35	3.218	3.264	3.311	1.43%	0.35
36	3.086	3.132	3.178	1.47%	0.36
37	2.961	3.006	3.051	1.52%	0.37
38	2.841	2.886	2.931	1.56%	0.38
39	2.727	2.771	2.815	1.60%	0.40
40	2.618	2.661	2.705	1.64%	0.41



R-T data for LNTA 502FW

B25/85 3970 K \pm 1%
R25 5.00 k Ω \pm 1%

T()	Rmin(k Ω)	Rcent(k Ω)	Rmax(k Ω)	DR(%)	DT()
41	2.514	2.557	2.600	1.68%	0.42
42	2.415	2.457	2.499	1.72%	0.44
43	2.320	2.361	2.403	1.76%	0.45
44	2.230	2.270	2.311	1.80%	0.46
45	2.143	2.183	2.223	1.84%	0.47
46	2.060	2.099	2.139	1.88%	0.49
47	1.981	2.019	2.058	1.92%	0.50
48	1.906	1.943	1.981	1.96%	0.51
49	1.833	1.870	1.907	2.00%	0.53
50	1.764	1.800	1.837	2.04%	0.54
51	1.698	1.733	1.769	2.08%	0.55
52	1.634	1.669	1.704	2.11%	0.57
53	1.574	1.608	1.642	2.15%	0.58
54	1.516	1.549	1.583	2.19%	0.59
55	1.460	1.493	1.526	2.23%	0.61
56	1.407	1.439	1.471	2.27%	0.62
57	1.356	1.387	1.419	2.30%	0.64
58	1.307	1.337	1.369	2.34%	0.65
59	1.260	1.290	1.320	2.38%	0.66
60	1.215	1.244	1.274	2.41%	0.68
61	1.171	1.200	1.230	2.45%	0.69
62	1.130	1.158	1.187	2.49%	0.71
63	1.090	1.118	1.146	2.52%	0.72
64	1.052	1.079	1.107	2.56%	0.74
65	1.016	1.042	1.069	2.60%	0.75
66	0.9804	1.006	1.033	2.63%	0.77
67	0.9467	0.9721	0.9980	2.67%	0.78
68	0.9143	0.9391	0.9645	2.70%	0.80
69	0.8832	0.9075	0.9323	2.74%	0.81
70	0.8533	0.8770	0.9014	2.77%	0.83
71	0.8246	0.8478	0.8716	2.81%	0.84
72	0.7969	0.8197	0.8430	2.84%	0.86
73	0.7704	0.7926	0.8154	2.88%	0.87
74	0.7448	0.7666	0.7889	2.91%	0.89
75	0.7203	0.7416	0.7634	2.95%	0.90
76	0.6967	0.7175	0.7389	2.98%	0.92
77	0.6740	0.6943	0.7153	3.01%	0.93
78	0.6521	0.6720	0.6925	3.05%	0.95
79	0.6310	0.6505	0.6706	3.08%	0.96
80	0.6108	0.6299	0.6495	3.11%	0.98

T()	Rmin(k Ω)	Rcent(k Ω)	Rmax(k Ω)	DR(%)	DT()
81	0.5913	0.6099	0.6291	3.15%	1.00
82	0.5725	0.5907	0.6095	3.18%	1.01
83	0.5544	0.5723	0.5906	3.21%	1.03
84	0.5370	0.5544	0.5724	3.25%	1.04
85	0.5202	0.5373	0.5549	3.28%	1.06
86	0.5040	0.5207	0.5379	3.31%	1.08
87	0.4884	0.5047	0.5216	3.34%	1.09
88	0.4733	0.4893	0.5059	3.37%	1.11
89	0.4588	0.4745	0.4907	3.41%	1.12
90	0.4448	0.4602	0.4760	3.44%	1.14
91	0.4313	0.4464	0.4618	3.47%	1.16
92	0.4183	0.4330	0.4482	3.50%	1.17
93	0.4058	0.4201	0.4350	3.53%	1.19
94	0.3936	0.4077	0.4222	3.56%	1.21
95	0.3819	0.3957	0.4099	3.59%	1.22
96	0.3706	0.3841	0.3981	3.63%	1.24
97	0.3597	0.3729	0.3866	3.66%	1.26
98	0.3492	0.3621	0.3755	3.69%	1.28
99	0.3390	0.3517	0.3647	3.72%	1.29
100	0.3292	0.3416	0.3544	3.75%	1.31
101	0.3197	0.3318	0.3443	3.78%	1.33
102	0.3105	0.3224	0.3347	3.81%	1.35
103	0.3017	0.3133	0.3253	3.84%	1.36
104	0.2931	0.3044	0.3162	3.87%	1.38
105	0.2848	0.2959	0.3074	3.90%	1.40
106	0.2768	0.2877	0.2989	3.93%	1.42
107	0.2690	0.2797	0.2907	3.95%	1.43
108	0.2615	0.2719	0.2828	3.98%	1.45
109	0.2542	0.2645	0.2751	4.01%	1.47
110	0.2472	0.2572	0.2676	4.04%	1.49
111	0.2404	0.2502	0.2604	4.07%	1.51
112	0.2338	0.2434	0.2534	4.10%	1.52
113	0.2274	0.2369	0.2466	4.13%	1.54
114	0.2213	0.2305	0.2401	4.16%	1.56
115	0.2153	0.2243	0.2337	4.18%	1.58
116	0.2095	0.2183	0.2275	4.21%	1.60
117	0.2039	0.2125	0.2216	4.24%	1.62
118	0.1984	0.2069	0.2158	4.27%	1.64
119	0.1932	0.2015	0.2101	4.30%	1.65
120	0.1881	0.1962	0.2047	4.32%	1.67