

产 品 规 格 书

SPECIFICATION FOR APPROVAL

合肥晶浦传感科技有限公司

HEFEI JINGPU SENSOR TECHNOLOGY CO., LTD.

客户代码 CUSTOMER CODE	CC280
产品名称 PART NAME	温度传感器 TEMPERATURE SENSOR
产品型号 MODEL	MFP
订制号 CUSTOM CODE	CC280-260302B
版本号 VERSION	A1
编制日期 DATE	2026.06.17

制造商说明 Manufacturer Statement:

本规格书提供了我公司产品性能、试验、条件、使用要求、结构尺寸描述，敬请贵公司确认。若对本规格书产生疑义时，请迅速与我们取得联系，如无疑义请确认回传,若无回传，我司将视为默认。当贵公司改变使用用途、作用方法时，请与我们取得联系。

This specification document provides descriptions of our product performance, testing conditions, usage requirements, and structural dimensions. We request your company's approval. Should any discrepancies arise regarding this specification, please contact us promptly. If no issues are identified, please kindly approve and send back this document with stamp and signature. Failure to send back the approved document will be deemed as your acceptance of all terms herein. Should your company modify the intended application or usage methods, please notify us immediately.

审批 Checked and Approved	设计 Designed
钱世涛	薛安品

客户承认 CUSTOMER APPROVAL	年 Y 月 M 日 D
	(签章 Signature):

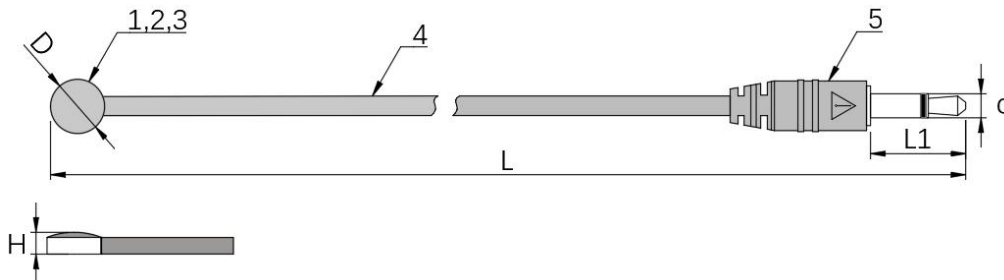
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一、性能参数 Electrical characteristic

项目 Item	代号 Code	测试条件 Test Condition	性能要求 Performance Requirements	单位 Unit
标称阻值 Rated Resistance	R _{25°C}	+25°C±0.02°C	2.252	kΩ
B 值 B Value	B _{25/50}	+25°C±0.02°C, +50°C±0.02°C	3935	K
最大允许误差 Resistance Tolerance	Tol.	T±0.02°C	(25~45) ±0.1	°C
热时间常数 Thermal Time Constant	τ	静止空气中 In still air	≤150	s
耗散系数 Dissipation Factor	δ	静止空气中 In still air	Approx1.5	mW/ °C
耐电压 Withstand Voltage	Hi-pot	静止空气中 In still air AC500V 1mA 1s	无击穿或飞弧 No breakdown or flashover	V
使用温度范围 Operating Temp. Range	OTR	静止空气中 In still air	0~60	°C

二、尺寸图 Drawing: (unit: mm)



标号 Symbol	D	H	L	L1	d
尺寸 Size	Φ9.5±0.2	3.0Max	300±10	14.75	Φ3.5

序号 NO.	名称 Name	材料规格 Material Specification	数量 QTY.	备注 Remarks
1	芯片 Chip	NTC 热敏芯片 NTC Thermal Chip	1	-
2	封装 Encapsulation	环氧树脂 Epoxy Resin	-	灰色 Grey
3	探头 Probe	不锈钢 SUS304Φ9.5	1	-
4	电线 Cable	PVC 圆护套线 28AWG 19/0.08 镀锡 OD2.0 round sheathed wire	1	灰色 Grey
5	插头 Plug	PVC 注塑音频插头 -3.5-2P	1	-

三、可靠性 Reliability test

- 3.1 引出端强度：固定环氧包封头，沿引线引出方向逐渐施加10N拉力保持 $5\pm 1\text{Sec}$ ，无可见损伤。
Intensity: After fixing the epoxy probe, then gradually apply a 10N pulling force along the lead-out direction and maintain it for $5\pm 1\text{Sec}$, without any visible damage.
- 3.2 高温储存（空气中） High Temp. Storage (In air)
 $60\pm 5^\circ\text{C}$ 1000h , $\Delta R25/R25\leq\pm 1\%$
- 3.3 低温储存（空气中） Low Temp. Store (In air)
 $0\pm 5^\circ\text{C}$ 1000h , $\Delta R25/R25\leq\pm 1\%$
- 3.4 稳态湿热 Heat and Humidity Stability
 $40\pm 2^\circ\text{C}$ 90%-95% RH 96H $\Delta R25/R25\leq\pm 1\%$
- 3.5 温度快速变化(空气中) Temperature Shift (In air)
 $0\pm 5^\circ\text{C}\times 30\text{min}$ $\xrightarrow[2\pm 1\text{min}]{\text{室温}}$ $60\pm 5^\circ\text{C}\times 30\text{min}$ 5次 five cycles , $\Delta R25/R25\leq\pm 1\%$

四、注意事项 Operation Notice

- 4.1 本产品的用途：温度测量与控制；
Application: Temperature measure and control;
- 4.2 最大能量耗散 Max. Power Dissipation
为确保测温精准，温度传感器的最大功率应 $\leq 50\mu\text{W}$ ，避免温度传感器自热升温 $>0.02^\circ\text{C}$ ，引起测温误差。
To ensure accurate temperature measurement, the maximum power of the medical temperature sensor should be $\leq 50\mu\text{W}$. To avoid the self-heating of the medical temperature sensor $>0.02^\circ\text{C}$, which may cause temperature measurement errors.
- 4.3 本产品尽量避免与其他电器设备接近或叠放使用，以避免电器设备间可能的电子干扰。
Try to avoid placing this product close to or stack it with other electrical equipment to avoid possible electronic interference between electrical equipments.
- 4.4 确保连接方式正确，避免过电流流过热敏电阻器或温度传感器引起元件自身发热而产生测量误差及损坏。
Ensure the connection method is correct to avoid overcurrent flowing through thermistors or temperature sensors, causing the components to heat up and cause measurement errors and damage.
- 4.5 保护探头，不允许对探头进行过紧的弯折和碰撞，避免对温度传感器电缆进行用力拉拽或过度弯折，否则会造成测量结果不准。
Protect the probe, do not allow the probe to be bent too tightly or collided, and avoid pulling the temperature sensor cable hard or bending it excessively, otherwise it may cause inaccurate measurement results.

- 4.6 若在感温头处加热缩套管时，焊枪出风口应背离感温头大于 30mm，避免高温对电阻本体的过度热冲击导致阻值飘移。

When applying heat shrink tubing to the temperature-sensing head, ensure that the hot air gun nozzle is more than 10mm away from the sensing head to avoid excessive thermal shock to the thermistor body, which could cause resistance value drift.

- 4.7 温度探头长时间浸泡在液体中可能会引起数据读取的不准确。

Immersing the temperature probe in liquid for a long time may cause inaccurate data readings.

- 4.8 使用破损的温度探头可能导致数据读取的不准确，如果探头有破损不要使用，请更换新的探头。

A damaged temperature probe during use may cause inaccurate data readings. If the probe is damaged, do not use it and replace it with a new one.

五、运输与存储环境要求 Requirements for Transportation and Storage

- 5.1 产品须存储在清洁卫生、干燥、通风的仓库内，应防潮、防氧化、防挤压。储存温度：0℃～+50℃，避免阳光直射。储存湿度：相对湿度30%~80%,非冷凝。大气压力：86 kPa~106kPa。

The product must be stored in a clean, dry and ventilated warehouse. it should be protected from moisture, oxidation and extrusion.

Storage temperature: 0℃~+50℃, avoiding direct sunlight.

Storage humidity: relative humidity 50%±25%, non-condensing.

Atmospheric pressure: 86 kPa~106 kPa.

- 5.2 产品运输或搬运时切勿从高处掉下。应保持运输工具清洁卫生。运输过程中应注意防止雨雪的淋袭和强烈的碰撞和挤压。不得与有害、有毒、有腐蚀性的物品混运。

During transporting and carrying the product, should not be dropped from a height. Attention should be paid to the cleanliness of the transportation vehicle. During transportation, attention should be paid to preventing rain and snow from getting in the way and strong collision and extrusion. It must not be transported together with harmful, toxic and corrosive items.

六、附件:阻温数据对照表 Attachment:Temperature VS Resistance Table .

TEMPERATURE VS RESISTANCE TABLE

PN:JP

R25℃=2.252kΩ, B25/50=3935K (25~45) ±0.1℃							
Temp.	Resistance(kΩ)			resistance tol. (%)		Temp.tol. (℃)	
℃	Rmin	R(t)Normal	Rmax	MIN	MAX	MIN	MAX
0	7.2790	7.3550	7.4310	-1.03%	1.03%	-0.20	0.20
1	6.9173	6.9890	7.0607	-1.03%	1.03%	-0.20	0.20
2	6.5763	6.6440	6.7117	-1.02%	1.02%	-0.20	0.20

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TEMPERATURE VS RESISTANCE TABLE

PN:JP

R25°C=2.252kΩ, B25/50=3935K (25~45) ±0.1°C							
Temp.	Resistance(kΩ)			resistance tol. (%)		Temp.tol. (°C)	
°C	Rmin	R(t)Normal	Rmax	MIN	MAX	MIN	MAX
3	6.2540	6.3180	6.3820	-1.01%	1.01%	-0.20	0.20
4	5.9505	6.0110	6.0715	-1.01%	1.01%	-0.20	0.20
5	5.6619	5.7190	5.7761	-1.00%	1.00%	-0.20	0.20
6	5.3900	5.4440	5.4980	-0.99%	0.99%	-0.20	0.20
7	5.1319	5.1830	5.2341	-0.99%	0.99%	-0.20	0.20
8	4.8886	4.9370	4.9853	-0.98%	0.98%	-0.20	0.20
9	4.6573	4.7030	4.7488	-0.97%	0.97%	-0.20	0.20
10	4.4387	4.4820	4.5253	-0.97%	0.97%	-0.20	0.20
11	4.2320	4.2730	4.3140	-0.96%	0.96%	-0.20	0.20
12	4.0352	4.0740	4.1129	-0.95%	0.95%	-0.20	0.20
13	3.8492	3.8860	3.9228	-0.95%	0.95%	-0.20	0.20
14	3.6731	3.7080	3.7429	-0.94%	0.94%	-0.20	0.20
15	3.5059	3.5390	3.5721	-0.94%	0.94%	-0.20	0.20
16	3.3466	3.3780	3.4094	-0.93%	0.93%	-0.20	0.20
17	3.1962	3.2260	3.2558	-0.92%	0.92%	-0.20	0.20
18	3.0528	3.0810	3.1093	-0.92%	0.92%	-0.20	0.20
19	2.9172	2.9440	2.9708	-0.91%	0.91%	-0.20	0.20
20	2.7885	2.8140	2.8395	-0.91%	0.91%	-0.20	0.20
21	2.6658	2.6900	2.7142	-0.90%	0.90%	-0.20	0.20
22	2.5494	2.5720	2.5946	-0.88%	0.88%	-0.20	0.20
23	2.4383	2.4600	2.4816	-0.88%	0.88%	-0.20	0.20
24	2.3333	2.3540	2.3747	-0.88%	0.88%	-0.20	0.20
24.8	2.2620	2.2720	2.2820	-0.44%	0.44%	-0.10	0.10
24.9	2.2520	2.2620	2.2719	-0.44%	0.44%	-0.10	0.10
25	2.2421	2.2520	2.2619	-0.44%	0.44%	-0.10	0.10
25.1	2.2323	2.2422	2.2520	-0.44%	0.44%	-0.10	0.10
25.2	2.2226	2.2324	2.2422	-0.44%	0.44%	-0.10	0.10
25.3	2.2129	2.2227	2.2325	-0.44%	0.44%	-0.10	0.10
25.4	2.2033	2.2130	2.2227	-0.44%	0.44%	-0.10	0.10
25.5	2.1937	2.2034	2.2131	-0.44%	0.44%	-0.10	0.10
25.6	2.1842	2.1938	2.2035	-0.44%	0.44%	-0.10	0.10
25.7	2.1747	2.1843	2.1939	-0.44%	0.44%	-0.10	0.10
25.8	2.1652	2.1748	2.1844	-0.44%	0.44%	-0.10	0.10

TEMPERATURE VS RESISTANCE TABLE

PN:JP

R25°C=2.252kΩ, B25/50=3935K (25~45) ±0.1°C							
Temp.	Resistance(kΩ)			resistance tol. (%)		Temp.tol. (°C)	
°C	Rmin	R(t)Normal	Rmax	MIN	MAX	MIN	MAX
25.9	2.1559	2.1654	2.1749	-0.44%	0.44%	-0.10	0.10
26	2.1465	2.1560	2.1655	-0.44%	0.44%	-0.10	0.10
26.1	2.1371	2.1466	2.1560	-0.44%	0.44%	-0.10	0.10
26.2	2.1278	2.1372	2.1466	-0.44%	0.44%	-0.10	0.10
26.3	2.1186	2.1279	2.1373	-0.44%	0.44%	-0.10	0.10
26.4	2.1093	2.1187	2.1280	-0.44%	0.44%	-0.10	0.10
26.5	2.1002	2.1094	2.1187	-0.44%	0.44%	-0.10	0.10
26.6	2.0910	2.1003	2.1095	-0.44%	0.44%	-0.10	0.10
26.7	2.0819	2.0911	2.1003	-0.44%	0.44%	-0.10	0.10
26.8	2.0729	2.0820	2.0912	-0.44%	0.44%	-0.10	0.10
26.9	2.0639	2.0730	2.0821	-0.44%	0.44%	-0.10	0.10
27	2.0549	2.0640	2.0731	-0.44%	0.44%	-0.10	0.10
27.1	2.0461	2.0551	2.0641	-0.44%	0.44%	-0.10	0.10
27.2	2.0372	2.0462	2.0552	-0.44%	0.44%	-0.10	0.10
27.3	2.0285	2.0374	2.0464	-0.44%	0.44%	-0.10	0.10
27.4	2.0197	2.0287	2.0376	-0.44%	0.44%	-0.10	0.10
27.5	2.0111	2.0199	2.0288	-0.44%	0.44%	-0.10	0.10
27.6	2.0024	2.0113	2.0201	-0.44%	0.44%	-0.10	0.10
27.7	1.9938	2.0026	2.0114	-0.44%	0.44%	-0.10	0.10
27.8	1.9853	1.9940	2.0028	-0.44%	0.44%	-0.10	0.10
27.9	1.9770	1.9855	1.9940	-0.43%	0.43%	-0.10	0.10
28	1.9685	1.9770	1.9855	-0.43%	0.43%	-0.10	0.10
28.1	1.9601	1.9685	1.9770	-0.43%	0.43%	-0.10	0.10
28.2	1.9516	1.9601	1.9685	-0.43%	0.43%	-0.10	0.10
28.3	1.9433	1.9517	1.9601	-0.43%	0.43%	-0.10	0.10
28.4	1.9350	1.9433	1.9517	-0.43%	0.43%	-0.10	0.10
28.5	1.9267	1.9350	1.9433	-0.43%	0.43%	-0.10	0.10
28.6	1.9184	1.9267	1.9350	-0.43%	0.43%	-0.10	0.10
28.7	1.9102	1.9185	1.9267	-0.43%	0.43%	-0.10	0.10
28.8	1.9021	1.9103	1.9185	-0.43%	0.43%	-0.10	0.10
28.9	1.8939	1.9021	1.9103	-0.43%	0.43%	-0.10	0.10
29	1.8860	1.8940	1.9020	-0.42%	0.42%	-0.10	0.10
29.1	1.8780	1.8859	1.8939	-0.42%	0.42%	-0.10	0.10

TEMPERATURE VS RESISTANCE TABLE

PN:JP

R25°C=2.252kΩ, B25/50=3935K (25~45) ±0.1°C							
Temp.	Resistance(kΩ)			resistance tol. (%)		Temp.tol. (°C)	
°C	Rmin	R(t)Normal	Rmax	MIN	MAX	MIN	MAX
29.2	1.8700	1.8779	1.8858	-0.42%	0.42%	-0.10	0.10
29.3	1.8621	1.8699	1.8778	-0.42%	0.42%	-0.10	0.10
29.4	1.8542	1.8620	1.8698	-0.42%	0.42%	-0.10	0.10
29.5	1.8463	1.8541	1.8619	-0.42%	0.42%	-0.10	0.10
29.6	1.8384	1.8462	1.8539	-0.42%	0.42%	-0.10	0.10
29.7	1.8306	1.8383	1.8461	-0.42%	0.42%	-0.10	0.10
29.8	1.8228	1.8305	1.8382	-0.42%	0.42%	-0.10	0.10
29.9	1.8151	1.8227	1.8304	-0.42%	0.42%	-0.10	0.10
30	1.8074	1.8150	1.8226	-0.42%	0.42%	-0.10	0.10
30.1	1.7996	1.8072	1.8148	-0.42%	0.42%	-0.10	0.10
30.2	1.7919	1.7995	1.8071	-0.42%	0.42%	-0.10	0.10
30.3	1.7842	1.7918	1.7994	-0.42%	0.42%	-0.10	0.10
30.4	1.7766	1.7842	1.7917	-0.42%	0.42%	-0.10	0.10
30.5	1.7690	1.7766	1.7841	-0.42%	0.42%	-0.10	0.10
30.6	1.7615	1.7690	1.7765	-0.42%	0.42%	-0.10	0.10
30.7	1.7540	1.7614	1.7689	-0.42%	0.42%	-0.10	0.10
30.8	1.7465	1.7539	1.7613	-0.42%	0.42%	-0.10	0.10
30.9	1.7391	1.7464	1.7538	-0.42%	0.42%	-0.10	0.10
31	1.7317	1.7390	1.7463	-0.42%	0.42%	-0.10	0.10
31.1	1.7243	1.7316	1.7389	-0.42%	0.42%	-0.10	0.10
31.2	1.7170	1.7243	1.7316	-0.42%	0.42%	-0.10	0.10
31.3	1.7097	1.7170	1.7242	-0.42%	0.42%	-0.10	0.10
31.4	1.7025	1.7097	1.7169	-0.42%	0.42%	-0.10	0.10
31.5	1.6953	1.7025	1.7096	-0.42%	0.42%	-0.10	0.10
31.6	1.6882	1.6953	1.7024	-0.42%	0.42%	-0.10	0.10
31.7	1.6811	1.6882	1.6953	-0.42%	0.42%	-0.10	0.10
31.8	1.6740	1.6811	1.6881	-0.42%	0.42%	-0.10	0.10
31.9	1.6670	1.6740	1.6811	-0.42%	0.42%	-0.10	0.10
32	1.6600	1.6670	1.6740	-0.42%	0.42%	-0.10	0.10
32.1	1.6531	1.6601	1.6670	-0.42%	0.42%	-0.10	0.10
32.2	1.6462	1.6532	1.6601	-0.42%	0.42%	-0.10	0.10
32.3	1.6394	1.6463	1.6532	-0.42%	0.42%	-0.10	0.10
32.4	1.6326	1.6394	1.6463	-0.42%	0.42%	-0.10	0.10

TEMPERATURE VS RESISTANCE TABLE

PN:JP

R25°C=2.252kΩ, B25/50=3935K (25~45) ±0.1°C							
Temp.	Resistance(kΩ)			resistance tol. (%)		Temp.tol. (°C)	
°C	Rmin	R(t)Normal	Rmax	MIN	MAX	MIN	MAX
32.5	1.6258	1.6326	1.6395	-0.42%	0.42%	-0.10	0.10
32.6	1.6190	1.6258	1.6327	-0.42%	0.42%	-0.10	0.10
32.7	1.6123	1.6191	1.6259	-0.42%	0.42%	-0.10	0.10
32.8	1.6056	1.6124	1.6191	-0.42%	0.42%	-0.10	0.10
32.9	1.5989	1.6057	1.6124	-0.42%	0.42%	-0.10	0.10
33.0	1.5923	1.5990	1.6057	-0.42%	0.42%	-0.10	0.10
33.1	1.5856	1.5923	1.5989	-0.42%	0.42%	-0.10	0.10
33.2	1.5789	1.5856	1.5922	-0.42%	0.42%	-0.10	0.10
33.3	1.5722	1.5789	1.5855	-0.42%	0.42%	-0.10	0.10
33.4	1.5656	1.5722	1.5788	-0.42%	0.42%	-0.10	0.10
33.5	1.5590	1.5656	1.5722	-0.42%	0.42%	-0.10	0.10
33.6	1.5525	1.5590	1.5656	-0.42%	0.42%	-0.10	0.10
33.7	1.5460	1.5525	1.5590	-0.42%	0.42%	-0.10	0.10
33.8	1.5395	1.5460	1.5524	-0.42%	0.42%	-0.10	0.10
33.9	1.5330	1.5395	1.5459	-0.42%	0.42%	-0.10	0.10
34.0	1.5266	1.5330	1.5394	-0.42%	0.42%	-0.10	0.10
34.1	1.5202	1.5266	1.5331	-0.42%	0.42%	-0.10	0.10
34.2	1.5139	1.5203	1.5267	-0.42%	0.42%	-0.10	0.10
34.3	1.5077	1.5140	1.5204	-0.42%	0.42%	-0.10	0.10
34.4	1.5014	1.5078	1.5141	-0.42%	0.42%	-0.10	0.10
34.5	1.4953	1.5016	1.5079	-0.42%	0.42%	-0.10	0.10
34.6	1.4891	1.4954	1.5017	-0.42%	0.42%	-0.10	0.10
34.7	1.4830	1.4892	1.4955	-0.42%	0.42%	-0.10	0.10
34.8	1.4769	1.4831	1.4894	-0.42%	0.42%	-0.10	0.10
34.9	1.4710	1.4770	1.4831	-0.41%	0.41%	-0.10	0.10
35.0	1.4650	1.4710	1.4770	-0.41%	0.41%	-0.10	0.10
35.1	1.4590	1.4650	1.4710	-0.41%	0.41%	-0.10	0.10
35.2	1.4530	1.4590	1.4650	-0.41%	0.41%	-0.10	0.10
35.3	1.4471	1.4530	1.4590	-0.41%	0.41%	-0.10	0.10
35.4	1.4412	1.4471	1.4530	-0.41%	0.41%	-0.10	0.10
35.5	1.4353	1.4412	1.4471	-0.41%	0.41%	-0.10	0.10
35.6	1.4294	1.4353	1.4412	-0.41%	0.41%	-0.10	0.10
35.7	1.4236	1.4294	1.4353	-0.41%	0.41%	-0.10	0.10

TEMPERATURE VS RESISTANCE TABLE

PN:JP

R25°C=2.252kΩ, B25/50=3935K (25~45) ±0.1°C							
Temp.	Resistance(kΩ)			resistance tol. (%)		Temp.tol. (°C)	
°C	Rmin	R(t)Normal	Rmax	MIN	MAX	MIN	MAX
35.8	1.4178	1.4236	1.4294	-0.41%	0.41%	-0.10	0.10
35.9	1.4120	1.4178	1.4236	-0.41%	0.41%	-0.10	0.10
36.0	1.4062	1.4120	1.4178	-0.41%	0.41%	-0.10	0.10
36.1	1.4004	1.4062	1.4120	-0.41%	0.41%	-0.10	0.10
36.2	1.3947	1.4004	1.4061	-0.41%	0.41%	-0.10	0.10
36.3	1.3889	1.3946	1.4004	-0.41%	0.41%	-0.10	0.10
36.4	1.3832	1.3889	1.3946	-0.41%	0.41%	-0.10	0.10
36.5	1.3775	1.3832	1.3889	-0.41%	0.41%	-0.10	0.10
36.6	1.3718	1.3775	1.3831	-0.41%	0.41%	-0.10	0.10
36.7	1.3662	1.3718	1.3775	-0.41%	0.41%	-0.10	0.10
36.8	1.3606	1.3662	1.3718	-0.41%	0.41%	-0.10	0.10
36.9	1.3550	1.3606	1.3662	-0.41%	0.41%	-0.10	0.10
37.0	1.3494	1.3550	1.3606	-0.41%	0.41%	-0.10	0.10
37.1	1.3440	1.3495	1.3550	-0.41%	0.41%	-0.10	0.10
37.2	1.3385	1.3440	1.3495	-0.41%	0.41%	-0.10	0.10
37.3	1.3331	1.3385	1.3440	-0.41%	0.41%	-0.10	0.10
37.4	1.3276	1.3331	1.3386	-0.41%	0.41%	-0.10	0.10
37.5	1.3222	1.3277	1.3331	-0.41%	0.41%	-0.10	0.10
37.6	1.3169	1.3223	1.3277	-0.41%	0.41%	-0.10	0.10
37.7	1.3115	1.3169	1.3223	-0.41%	0.41%	-0.10	0.10
37.8	1.3062	1.3116	1.3170	-0.41%	0.41%	-0.10	0.10
37.9	1.3009	1.3063	1.3116	-0.41%	0.41%	-0.10	0.10
38.0	1.2957	1.3010	1.3063	-0.41%	0.41%	-0.10	0.10
38.1	1.2905	1.2957	1.3009	-0.40%	0.40%	-0.10	0.10
38.2	1.2852	1.2904	1.2956	-0.40%	0.40%	-0.10	0.10
38.3	1.2800	1.2851	1.2903	-0.40%	0.40%	-0.10	0.10
38.4	1.2748	1.2799	1.2850	-0.40%	0.40%	-0.10	0.10
38.5	1.2696	1.2747	1.2798	-0.40%	0.40%	-0.10	0.10
38.6	1.2644	1.2695	1.2746	-0.40%	0.40%	-0.10	0.10
38.7	1.2593	1.2643	1.2694	-0.40%	0.40%	-0.10	0.10
38.8	1.2542	1.2592	1.2642	-0.40%	0.40%	-0.10	0.10
38.9	1.2491	1.2541	1.2591	-0.40%	0.40%	-0.10	0.10
39.0	1.2440	1.2490	1.2540	-0.40%	0.40%	-0.10	0.10

TEMPERATURE VS RESISTANCE TABLE

PN:JP

R25°C=2.252kΩ, B25/50=3935K (25~45) ±0.1°C							
Temp.	Resistance(kΩ)			resistance tol. (%)		Temp.tol. (°C)	
°C	Rmin	R(t)Normal	Rmax	MIN	MAX	MIN	MAX
39.1	1.2390	1.2440	1.2490	-0.40%	0.40%	-0.10	0.10
39.2	1.2341	1.2390	1.2440	-0.40%	0.40%	-0.10	0.10
39.3	1.2292	1.2341	1.2390	-0.40%	0.40%	-0.10	0.10
39.4	1.2243	1.2292	1.2341	-0.40%	0.40%	-0.10	0.10
39.5	1.2194	1.2243	1.2292	-0.40%	0.40%	-0.10	0.10
39.6	1.2145	1.2194	1.2242	-0.40%	0.40%	-0.10	0.10
39.7	1.2096	1.2145	1.2194	-0.40%	0.40%	-0.10	0.10
39.8	1.2048	1.2096	1.2145	-0.40%	0.40%	-0.10	0.10
39.9	1.2000	1.2048	1.2096	-0.40%	0.40%	-0.10	0.10
40.0	1.1952	1.2000	1.2048	-0.40%	0.40%	-0.10	0.10
40.1	1.1903	1.1951	1.1999	-0.40%	0.40%	-0.10	0.10
40.2	1.1855	1.1902	1.1950	-0.40%	0.40%	-0.10	0.10
40.3	1.1806	1.1854	1.1901	-0.40%	0.40%	-0.10	0.10
40.4	1.1758	1.1806	1.1853	-0.40%	0.40%	-0.10	0.10
40.5	1.1710	1.1757	1.1804	-0.40%	0.40%	-0.10	0.10
40.6	1.1663	1.1710	1.1756	-0.40%	0.40%	-0.10	0.10
40.7	1.1615	1.1662	1.1708	-0.40%	0.40%	-0.10	0.10
40.8	1.1568	1.1614	1.1661	-0.40%	0.40%	-0.10	0.10
40.9	1.1521	1.1567	1.1613	-0.40%	0.40%	-0.10	0.10
41.0	1.1474	1.1520	1.1566	-0.40%	0.40%	-0.10	0.10
41.1	1.1428	1.1474	1.1520	-0.40%	0.40%	-0.10	0.10
41.2	1.1382	1.1428	1.1474	-0.40%	0.40%	-0.10	0.10
41.3	1.1337	1.1382	1.1428	-0.40%	0.40%	-0.10	0.10
41.4	1.1292	1.1337	1.1382	-0.40%	0.40%	-0.10	0.10
41.5	1.1247	1.1292	1.1337	-0.40%	0.40%	-0.10	0.10
41.6	1.1202	1.1247	1.1292	-0.40%	0.40%	-0.10	0.10
41.7	1.1158	1.1202	1.1247	-0.40%	0.40%	-0.10	0.10
41.8	1.1113	1.1158	1.1203	-0.40%	0.40%	-0.10	0.10
41.9	1.1069	1.1114	1.1158	-0.40%	0.40%	-0.10	0.10
42.0	1.1026	1.1070	1.1114	-0.40%	0.40%	-0.10	0.10
42.1	1.0982	1.1026	1.1070	-0.40%	0.40%	-0.10	0.10
42.2	1.0938	1.0982	1.1026	-0.40%	0.40%	-0.10	0.10
42.3	1.0895	1.0939	1.0983	-0.40%	0.40%	-0.10	0.10

TEMPERATURE VS RESISTANCE TABLE

PN:JP

R25°C=2.252kΩ, B25/50=3935K (25~45) ±0.1°C							
Temp.	Resistance(kΩ)			resistance tol. (%)		Temp.tol. (°C)	
°C	Rmin	R(t)Normal	Rmax	MIN	MAX	MIN	MAX
42.4	1.0852	1.0896	1.0939	-0.40%	0.40%	-0.10	0.10
42.5	1.0809	1.0853	1.0896	-0.40%	0.40%	-0.10	0.10
42.6	1.0766	1.0810	1.0853	-0.40%	0.40%	-0.10	0.10
42.7	1.0724	1.0767	1.0810	-0.40%	0.40%	-0.10	0.10
42.8	1.0682	1.0724	1.0767	-0.40%	0.40%	-0.10	0.10
42.9	1.0639	1.0682	1.0725	-0.40%	0.40%	-0.10	0.10
43.0	1.0597	1.0640	1.0683	-0.40%	0.40%	-0.10	0.10
43.1	1.0556	1.0598	1.0641	-0.40%	0.40%	-0.10	0.10
43.2	1.0514	1.0556	1.0599	-0.40%	0.40%	-0.10	0.10
43.3	1.0473	1.0515	1.0557	-0.40%	0.40%	-0.10	0.10
43.4	1.0432	1.0474	1.0516	-0.40%	0.40%	-0.10	0.10
43.5	1.0391	1.0433	1.0474	-0.40%	0.40%	-0.10	0.10
43.6	1.0350	1.0392	1.0433	-0.40%	0.40%	-0.10	0.10
43.7	1.0310	1.0351	1.0392	-0.40%	0.40%	-0.10	0.10
43.8	1.0269	1.0310	1.0352	-0.40%	0.40%	-0.10	0.10
43.9	1.0229	1.0270	1.0311	-0.40%	0.40%	-0.10	0.10
44.0	1.0189	1.0230	1.0271	-0.40%	0.40%	-0.10	0.10
44.1	1.0149	1.0190	1.0231	-0.40%	0.40%	-0.10	0.10
44.2	1.0110	1.0150	1.0191	-0.40%	0.40%	-0.10	0.10
44.3	1.0070	1.0111	1.0151	-0.40%	0.40%	-0.10	0.10
44.4	1.0031	1.0071	1.0111	-0.40%	0.40%	-0.10	0.10
44.5	0.9992	1.0032	1.0072	-0.40%	0.40%	-0.10	0.10
44.6	0.9953	0.9993	1.0033	-0.40%	0.40%	-0.10	0.10
44.7	0.9914	0.9954	0.9994	-0.40%	0.40%	-0.10	0.10
44.8	0.9875	0.9915	0.9955	-0.40%	0.40%	-0.10	0.10
44.9	0.9837	0.9876	0.9916	-0.40%	0.40%	-0.10	0.10
45.0	0.9799	0.9838	0.9877	-0.40%	0.40%	-0.10	0.10
45.1	0.9760	0.9800	0.9839	-0.40%	0.40%	-0.10	0.10
45.2	0.9724	0.9762	0.9799	-0.39%	0.39%	-0.10	0.10
46.0	0.9389	0.9462	0.9535	-0.77%	0.77%	-0.20	0.20
47.0	0.9032	0.9102	0.9172	-0.77%	0.77%	-0.20	0.20
48.0	0.8691	0.8758	0.8825	-0.76%	0.76%	-0.20	0.20
49.0	0.8364	0.8428	0.8492	-0.76%	0.76%	-0.20	0.20

TEMPERATURE VS RESISTANCE TABLE

PN:JP

R25°C=2.252kΩ, B25/50=3935K (25~45) ±0.1°C							
Temp.	Resistance(kΩ)			resistance tol. (%)		Temp.tol. (°C)	
°C	Rmin	R(t)Normal	Rmax	MIN	MAX	MIN	MAX
50.0	0.8052	0.8113	0.8174	-0.75%	0.75%	-0.20	0.20
51.0	0.7754	0.7813	0.7872	-0.75%	0.75%	-0.20	0.20
52.0	0.7466	0.7522	0.7578	-0.74%	0.74%	-0.20	0.20
53.0	0.7191	0.7245	0.7299	-0.74%	0.74%	-0.20	0.20
54.0	0.6927	0.6979	0.7031	-0.74%	0.74%	-0.20	0.20
55.0	0.6675	0.6725	0.6775	-0.74%	0.74%	-0.20	0.20
56.0	0.6434	0.6481	0.6528	-0.73%	0.73%	-0.20	0.20
57.0	0.6203	0.6248	0.6293	-0.72%	0.72%	-0.20	0.20
58.0	0.5981	0.6024	0.6067	-0.72%	0.72%	-0.20	0.20
59.0	0.5767	0.5809	0.5851	-0.72%	0.72%	-0.20	0.20
60.0	0.5563	0.5603	0.5643	-0.71%	0.71%	-0.20	0.20