

# Shibaura: Sense the Difference

Thermistor Sensors from the World Leader

Shibaura Electronics Co., Ltd. is Japan's leading producer and supplier of thermistors—and for good reason. Since 1953, we've been creating innovative thermistor products and building a customer list that literally spans the globe. And we provide a quality matched with speed, with our new order form that almost instantly speeds an estimate to you for your approval.

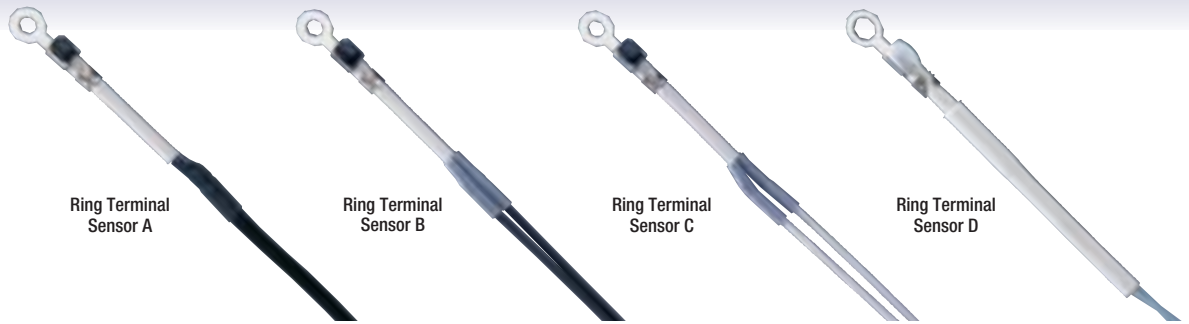
Another way in which you can sense the difference of Shibaura.



SHIBAURA ELECTRONICS CO., LTD.

# Shibaura: Sense the Difference

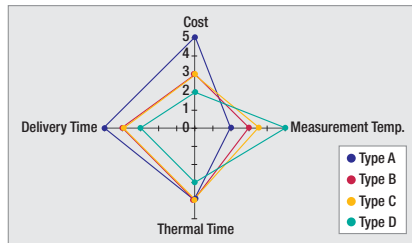
Ordering Shibaura's world-renowned thermistor products couldn't be easier. Simply follow the three simple steps below to receive an estimate for your order—almost immediately!



## Step 1: Choose the ideal sensor by measurement temperature range and desired features\*:

Type	Measurement Temp.	Thermistor Type	Cable	Tube
A	-20~105°C	PSB-S1	Heatproof PVC	Cross-linked polyorefin
B	-20~150°C	PSB-S1	Cross-linked polyethylene	Silicon
C	0~180°C	PSB-S1	Grass-braided silicon rubber	Silicon
D	0~300°C	NS2	PTFE	Silica glass

\* Thermistor, cable and protection tube materials vary according to application; see below.



### Features (larger number indicate superior performance)

- Type A :** Provides high cost-performance and short delivery times.
- Type B :** Mass-market type offering a balance of cost and performance.
- Type C :** Ideal for mid-level measurements.
- Type D :** Designed for high-temperature measurements.

The figures are subject to be changed due to condition.

## Step 2: Choose ring size, thermistor characteristics, total length, connector and order quantity per shipment:

Ring Size	Thermistor Characteristics		Total Length (mm)	Connector	Order Quantity per Shipment
	Resistance and B-Value	R Tolerance			
D1 $\phi$ 4.3	R1 : R0 30K $\Omega$ , B0/100=3450K $\pm$ 2%	T1 1.0 %	L1 200 ~ 399	C1 None	Q1 500 pieces
D2 $\phi$ 3.2	R2 : R25 10K $\Omega$ , B25/85=3435K $\pm$ 2%	T2 2.5 %	L2 400 ~ 599	C2 XHP-2, JST	Q2 1,000 pieces
	R3 : R25 10K $\Omega$ , B0/100=3970K $\pm$ 2%	T3 5.0 %	L3 600 ~ 799	C3 EHR-2, JST	Q3 3,000 pieces
	R4 : R100 3.3K $\Omega$ , B0/100=3970K $\pm$ 2%		L4 800 ~ 999	C4 51103-0300, Molex	Q4 5,000 pieces
	R5 : R200 0.55K $\Omega$ , B100/200=4300K $\pm$ 3%		L5 1000		Q5 10,000 pieces
	R6 : R200 8K $\Omega$ , B150/250=5300K $\pm$ 3%				

## Step 3: Fill in the information from above and fax your order to Shibaura; we will immediately return an estimate to you.

Example:

Step 1

Step 2

Type A	+	Ring Size D1	+	Thermistor Characteristic Resistance and B-Value R3	+	R Tolerance T2	+	Total Length, Unit:mm L4	+	Connector C2	+	Order Quantity per Shipment Q3
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**SHIBAURA ELECTRONICS CO., LTD.**

Address: 2-7-18 Machiya, Saitama city, Saitama pref., 338-0836 Japan

Phone: +81 48 (859) 6165 Fax: +81 48 (852) 8230

www.shibaura-e.co.jp e-mail: ovsea@shibaura-e.co.jp

## Estimate Request Form

Simply check the appropriate sensors, characteristics and quantities below, and fax to

**SHIBAURA ELECTRONICS CO., LTD.**

**+81 48 (852) 8230**

Name: _____
Company: _____
Address (including country): _____ _____
Fax: _____
Daytime contact telephone: _____

### Step 1 Choose the ideal sensor by measurement temperature range and desired features\*:

	Type	Measurement Temp.	Thermistor Type	Cable	Tube
<input type="checkbox"/>	A	-20~105°C	PSB-S1	Heatproof PVC	Cross-linked polyorefin
<input type="checkbox"/>	B	-20~150°C	PSB-S1	Cross-linked polyethylene	Cross-linked polyorefin
<input type="checkbox"/>	C	0~180°C	PSB-S1	Grass-braided silicon rubber	Grass-braided silicon
<input type="checkbox"/>	D	0~300°C	NS2	PTFE	Silica glass

\* Thermistor, cable and protection tube materials vary according to application; see below.

### Step 2 Choose ring size, thermistor characteristics, wire length, connector and order quantity:

<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #333; color: white;"> <th colspan="2">Ring Size</th> </tr> </thead> <tbody> <tr><td><input type="checkbox"/></td><td>D1 ø 4.3</td></tr> <tr><td><input type="checkbox"/></td><td>D2 ø 3.2</td></tr> </tbody> </table>	Ring Size		<input type="checkbox"/>	D1 ø 4.3	<input type="checkbox"/>	D2 ø 3.2	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #333; color: white;"> <th colspan="3">Thermistor Characteristics</th> </tr> <tr style="background-color: #333; color: white;"> <th style="width: 15%;"></th> <th style="width: 55%;">Resistance and B-Value</th> <th style="width: 30%;">R Tolerance</th> </tr> </thead> <tbody> <tr><td><input type="checkbox"/></td><td>R1 : R0 30KΩ, B0/100=3450K±2%</td><td><input type="checkbox"/></td><td>T1 1.0 %</td></tr> <tr><td><input type="checkbox"/></td><td>R2 : R25 10KΩ, B25/85=3435K±2%</td><td><input type="checkbox"/></td><td>T2 2.5 %</td></tr> <tr><td><input type="checkbox"/></td><td>R3 : R25 10KΩ, B0/100=3970K±2%</td><td><input type="checkbox"/></td><td>T3 5.0 %</td></tr> <tr><td><input type="checkbox"/></td><td>R3 : R100 3.3KΩ, B0/100=3970K±2%</td><td></td><td></td></tr> <tr><td><input type="checkbox"/></td><td>R4 : R200 0.55KΩ, B100/200=4300K±3%</td><td></td><td></td></tr> <tr><td><input type="checkbox"/></td><td>R5 : R200 8KΩ, B150/250=5300K±3%</td><td></td><td></td></tr> </tbody> </table>	Thermistor Characteristics				Resistance and B-Value	R Tolerance	<input type="checkbox"/>	R1 : R0 30KΩ, B0/100=3450K±2%	<input type="checkbox"/>	T1 1.0 %	<input type="checkbox"/>	R2 : R25 10KΩ, B25/85=3435K±2%	<input type="checkbox"/>	T2 2.5 %	<input type="checkbox"/>	R3 : R25 10KΩ, B0/100=3970K±2%	<input type="checkbox"/>	T3 5.0 %	<input type="checkbox"/>	R3 : R100 3.3KΩ, B0/100=3970K±2%			<input type="checkbox"/>	R4 : R200 0.55KΩ, B100/200=4300K±3%			<input type="checkbox"/>	R5 : R200 8KΩ, B150/250=5300K±3%			<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #333; color: white;"> <th colspan="2">Order Quantity</th> </tr> </thead> <tbody> <tr><td><input type="checkbox"/></td><td>Q1 500 pieces</td></tr> <tr><td><input type="checkbox"/></td><td>Q2 1,000 pieces</td></tr> <tr><td><input type="checkbox"/></td><td>Q3 3,000 pieces</td></tr> <tr><td><input type="checkbox"/></td><td>Q4 5,000 pieces</td></tr> <tr><td><input type="checkbox"/></td><td>Q5 10,000 pieces</td></tr> </tbody> </table>	Order Quantity		<input type="checkbox"/>	Q1 500 pieces	<input type="checkbox"/>	Q2 1,000 pieces	<input type="checkbox"/>	Q3 3,000 pieces	<input type="checkbox"/>	Q4 5,000 pieces	<input type="checkbox"/>	Q5 10,000 pieces
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### Step 3 Fax to Shibaaura Electronics Co., Ltd.