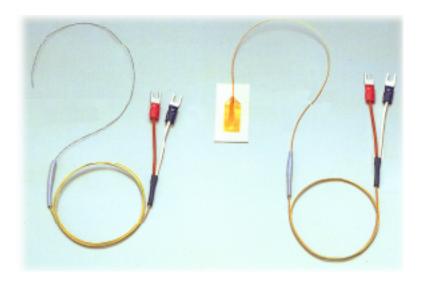
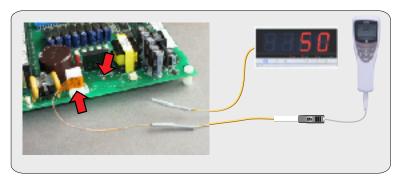
ST-55/56

Temperature Sensor for Extremely Small Surface





Type K thermocouple to measure the temperature of a fine surface

Features

Measuring temperature in a small surface area

A fine thermocouple enables measurement of a fine surface or a surface with small thermal capacity such as SMT parts.

Maximum temperature measurement

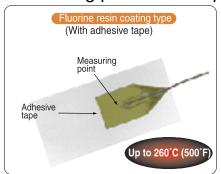
Ceramic coating type sensor is rated to 500°C (932°F) and fluorine resin coating type sensor is rated to 260°C (500°F).

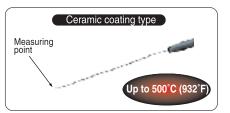
Optional adhesive tape on the tip

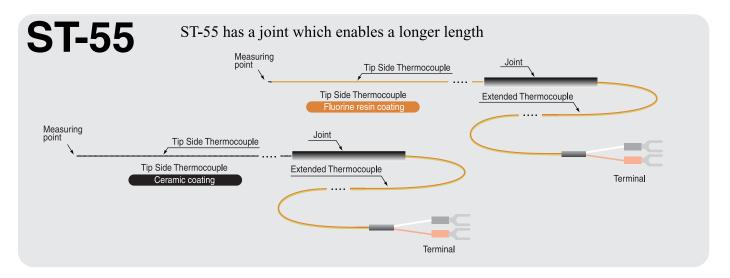
Optional adhesive tape on the fluorine resin coating type allows the tip to stick to an exact spot for measurement.

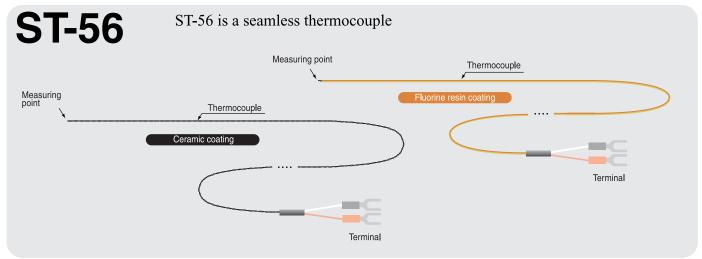
Fast response with fine thermocouple

Measuring point on the tip



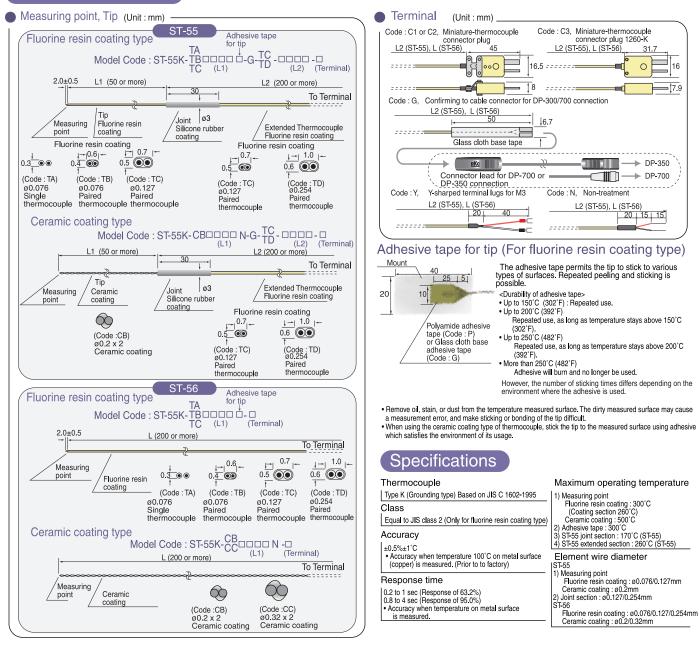






Application Connector lead for Handheld Confirming to cable connector DP-700 connection for DP-350/700 connection thermometer DP-700 Recorder Y-sharped Mount Device temperature by reflow soldering terminal lugs for M3 SBR-EY180 Surface temperature Temperature of semiconductor silicon wafer indicator AE500 Y-sharped terminal Input selector Electronic device temperature SP500 • Testing for assessment of parts test equipment Temperature distribution analysis of ovens Miniature-thermocouple LCD test equipment connector plug Data logger · Semiconductor fabrication equipment **-∭...** → · Automotive parts testing 1 Y-sharped terminal lugs for M3

External Dimensions



Model and Suffix Code

5T-55

Specifications	Contents Suffix Code								
Model	ST-55	K-	- 🗆			-G -	- 🗆]-[]
Thermocouple	Type K	K							
	Ø0.076 Fluorine resin coating (Single thermocouple type)		TA						
Shape of Thermocouple	Ø0.076 Fluorine resin coating (Paired thermocouple type)		TB						
(Element wire diameter/Coating)	ø0.127 Fluorine resin coating (Paired thermocouple type)		TC						
<u> </u>	Ø0.2 x 2 Ceramic coating		СВ						
Thermocouple length *1	Unit: mm (Min.50mm) Specify every 50mm unit								
	Polymide tape * Fluorine resin coating type only				Р				
Adhesive tape for tip	Glass cloth base tape * Fluorine resin coating type only				G				
i i	None				N				
Joint specifications	Silicone rubber coating (Max. temperature : 170°C)					G			
Shape of Extended Thermocouple	ø0.127 Fluorine resin coating (Paired thermocouple type)						TC		
(Element wire diameter/Coating)	ø0.254 Fluorine resin coating (Paired thermocouple type)						TD		
Extended thermocouple length *1	Unit: mm (Min.200mm) Specify every 50mm unit								j ,
	CMP01-K (RKC product) Material : Polyamide (Max. temperature : 140°C (284°F))								C1
Miniature-thermocouple connector plug	CMR01-K (RKC product) Material : PPS resin (Max. temperature : 220°C (428°F))				C2				
Terminal !	1260-K (MARINE product) (Max. temperature : 205°C (401°F))	С			C3				
	Y-sharped terminal lugs for M3 *2			Υ					
Confirming to cable connector for DP-350/700 connection									G
Non-treatment Non-treatment			N						

^{*1} Please select length so that a total resistance of thermocouple become 100Ω or less.

Thermocouple resistance per 100mm				
ø0.076mm : 18Ω	ø0.10mm : 12Ω			
ø 0.127 mm : 8Ω	ø0.20mm : 3Ω			

Ex. Thermocouple ø0.076mm type : 100mm (18 Ω x 1=18 Ω) Extended thermocouple ø0.254mm : 2000mm (2 Ω x20=40 Ω) Total 58 Ω

ST-56

Specifications	Contents Suffix Co		Suffix Code	e	
Model	ST-56	K- 🗆 🗆 🗆		<u> </u>	- 🗆
Thermocouple	Type K				
	ø0.076 Fluorine resin coating (Single thermocouple type)	TA			
Shape of Thermocouple	ø0.076 Fluorine resin coating (Paired thermocouple type)	ТВ			
(Element wire diameter/Coating)	ø0.127 Fluorine resin coating (Paired thermocouple type)	TC			
(Element wire diameter/Coating)	ø0.254 Fluorine resin coating (Paired thermocouple type)	TD			
	Ø0.2 x 2 Ceramic coating	СВ		1	
	Ø0.32 x 2 Ceramic coating	CC			
Thermocouple length *1	Unit : mm (Min.50mm) Specify every 50mm unit				
Polymide tape				Р	
Adhesive tape for tip	Glass cloth base tape * Fluorine resin coating type only			G	
	None			N	
	CMP01-K (RKC product) Material: Polyamide (Max. temperature: 140°C (284°F))				C1
Miniature-thermocouple connector plug	CMR01-K (RKC product) Material : PPS resin (Max. temperature : 220°C (428°F))	-))			C2
1	1260-K (MARINE product) (Max. temperature : 205°C (401°F))				C3
Terminal '	Y-sharped terminal lugs for M3 *2				Y
	Confirming to cable connector for DP-350/700 connection				G
Non-treatment Non-treatment				Ñ	

^{*1} Please select length so that resistance of thermocouple become 100Ω or less.

Thermocouple resistance per 100mm

ø0.10mm : 12Ω
Ø0.20mm : 3Ω
ø0.32mm : 1.2Ω

Ex. Thermocouple ø0.076mm type : 500mm (18 Ω x 5=90 Ω)



This product is intended for use with industrial machines, test and measuring equipment. It is not designed for use with medical equipment.

If it is possible that an accident may occur as a result of the failure of the product or some other abnormality, an appropriate independent protection device must be installed. This product must be used in accordance with the specifications to prevent fire or damage to product and equipment.

· This product is not intended for use in locations subject to flammable, explosive, or corrosive gases, or vapor, chemicals or dust. (including conductive dust)

Do not touch the sensor with high-voltage connections or high-current line such as power supply terminals, or do not stick the sensor to avoid electric shock or failure.

Do not touch the sensor just after the temperature is measured. If touched, burns or chilblains may result.



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^{*2} Y-sharped terminal lugs for M3 is not available if extended thermocouple was specified ø0.127 (Code: TC).

^{*2} Y-sharped terminal lugs for M3 is not available if thermocouple was specified Ø0.076 or Ø0.127 (Code: TA/TB).