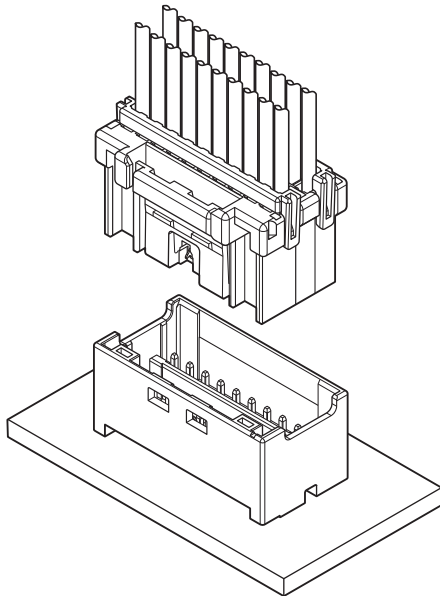


PID CONNECTOR

2.0 mm pitch/Wire-to-Board connectors/Crimp style and Mating style



This PID connector is a 2.0 mm pitch box type wire-to-board connector with secure lock device, and it has the mechanism for detecting half mating, which is possible to judge electrically whether its state is the complete or incomplete mating by the circuit of detecting half mating provided at the part of connector.

- Mechanism for detecting half mating
- Header suitable for potting process (MAX. 6.5 mm)
- Retainer compatible
- Secure lock mechanism

Specifications

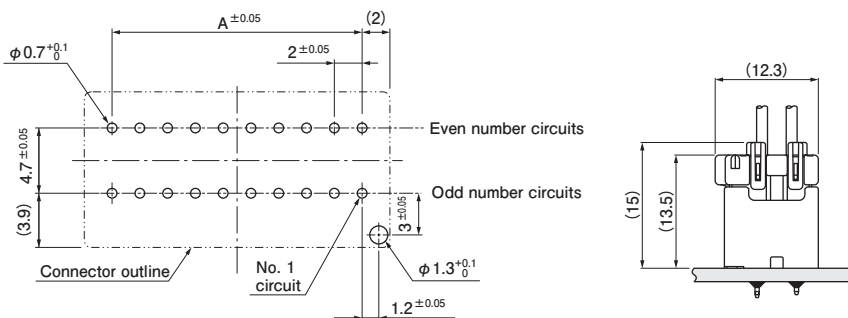
- Current rating: 3 A AC/DC (AWG #22)
 - Voltage rating: 250 V AC/DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance:
 - Initial value/ 10 mΩ max.
 - After environmental tests/ 20 mΩ max.
 - Insulation resistance: 1,000 MΩ min.
 - Withstanding voltage:
 - There shall be no breakdown or flashover while applying 800 VAC for one minute.
 - Applicable wire range:
 - Conductor size/ AWG #26 to AWG #22
 - Insulation O.D. / φ 1.0 mm to φ 1.5 mm
 - Applicable PC board thickness: 1.6 mm
- * Please refer to the "Handling Precautions for Terminals and Connectors" on our website (listed in the "Technical Documents" column on the Product Information page) before use.
- * RoHS2 compliance
- * Dimensional unit: mm
- * Contact JST for details.

Standards

For information on overseas standard registrations, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

* Specifications registered to overseas standards may differ from the general specifications listed above.

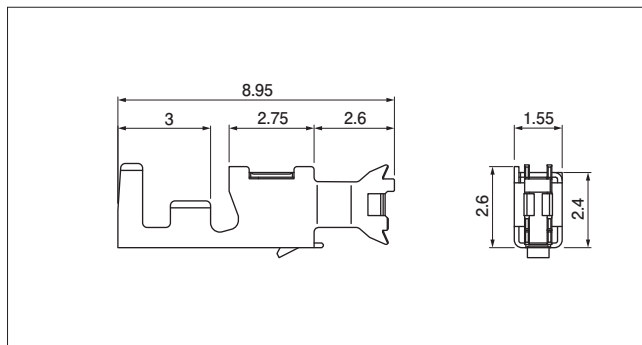
PC board layout and Assembly layout



- Note: 1. The PC board layout is the figure viewed from the connector mounting side.
 2. Dimension A: See "Header" section on page 3.
 3. Tolerance for the PCB hole pitch shall be ± 0.05 , and shall not accumulate more than ± 0.05 .
 4. Hole dimensions differ according to the type of PC board and piercing method.
 The above dimensions are reference values. Please contact JST for details.

PID CONNECTOR

Contact



Model No.	Applicable wire range		Q'ty/ reel	
	Conductor size	AWG (mm ²)		Insulation O.D. (mm)
SPID-001T-P0.5	#26 to #22	(0.13 to 0.33)	1.0 to 1.5	7,500

Material and Surface finish, etc.

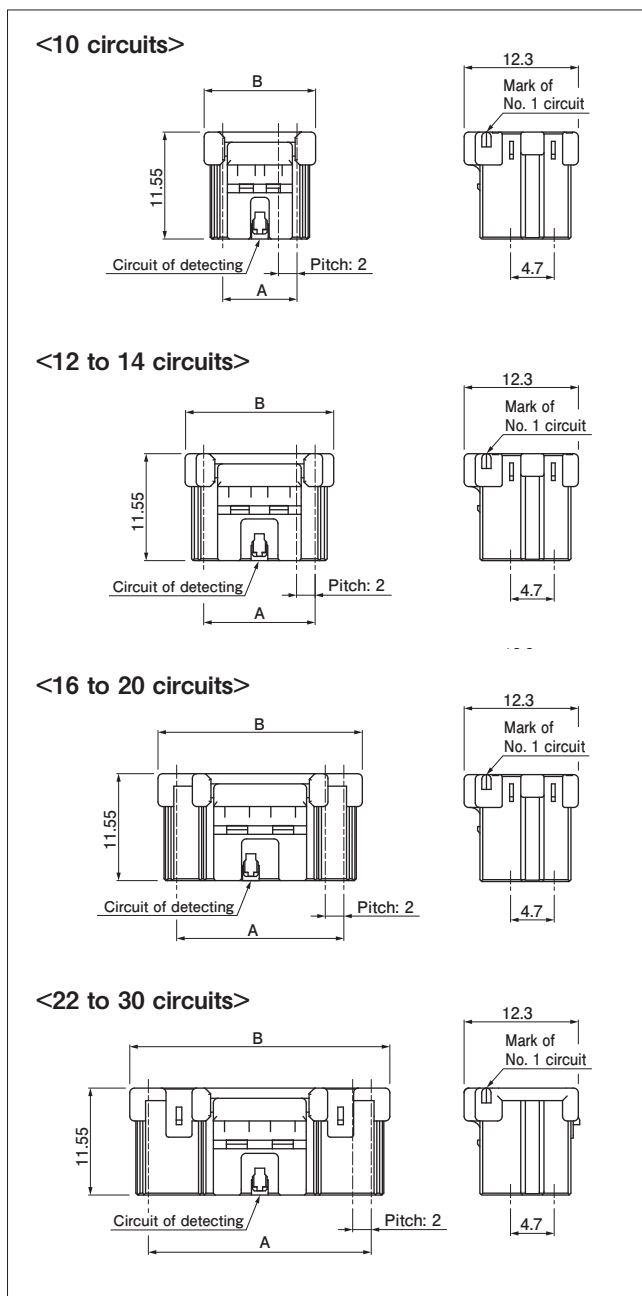
Copper alloy, tin-plated

Crimping machine

Contact	Crimping machine	Applicator	Crimp applicator with dies
SPID-001T-P0.5	AP-K2N	MKS-L	APLMK SPID001-05

Note: Contact JST for fully automatic crimping applicator.

Socket housing



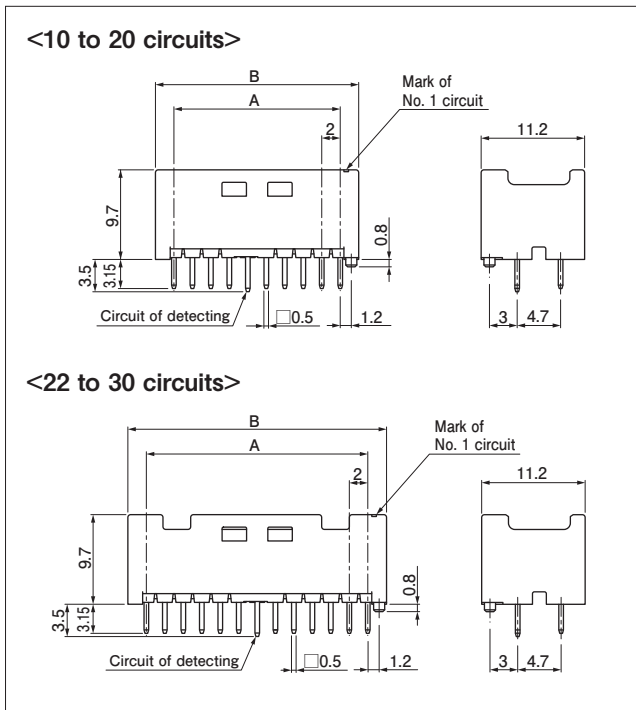
No. of circuits	Model No.	Dimensions (mm)		Detection pin number	Q'ty/bag
		A	B		
10	PIDRP-10V-S	8.0	12.0	5	1,000
12	PIDRP-12V-S	10.0	14.0	7	1,000
14	PIDRP-14V-S	12.0	16.0	7	1,000
16	PIDRP-16V-S	14.0	18.0	9	1,000
18	PIDRP-18V-S	16.0	20.0	9	1,000
20	PIDRP-20V-S	18.0	22.0	11	1,000
22	PIDRP-22V-S	20.0	24.0	11	500
24	PIDRP-24V-S	22.0	26.0	13	500
26	PIDRP-26V-S	24.0	28.0	13	500
30	PIDRP-30V-S	28.0	32.0	15	500

Material and Surface finish, etc.

PBT (Glass-filled), natural

Note: For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

Header



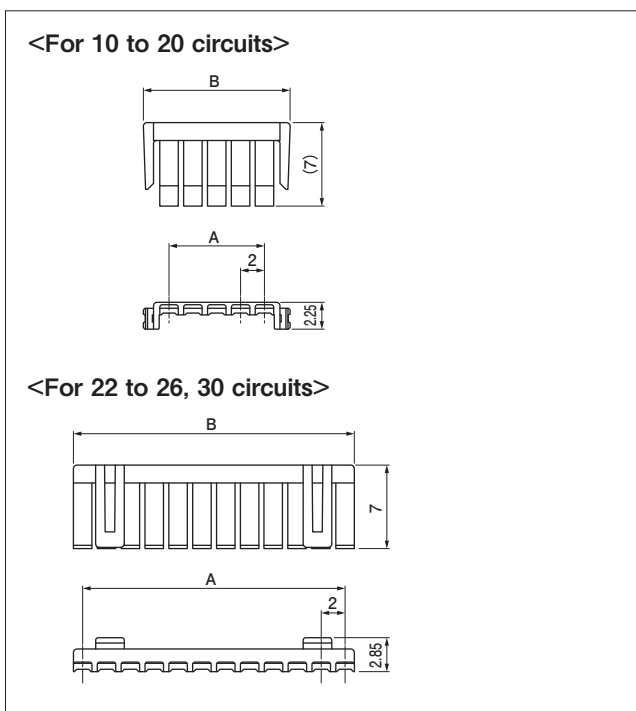
No. of circuits	Model No.	Dimensions (mm)		Detection pin number	Q'ty/box
		A	B		
10	B10B-PIDSS-1	8.0	12.0	5	4,000
12	B12B-PIDSS-1	10.0	14.0	7	3,360
14	B14B-PIDSS-1	12.0	16.0	7	2,880
16	B16B-PIDSS-1	14.0	18.0	9	2,560
18	B18B-PIDSS-1	16.0	20.0	9	2,400
20	B20B-PIDSS-1	18.0	22.0	11	2,080
22	B22B-PIDSS-1	20.0	24.0	11	1,920
24	B24B-PIDSS-1	22.0	26.0	13	1,760
26	B26B-PIDSS-1	24.0	28.0	13	1,600
30	B30B-PIDSS-1	28.0	32.0	15	1,440

Material and Surface finish, etc.

Post: Copper alloy, copper-undercoated, tin-plated
Wafer: PA 66 (Glass-filled), natural

- Note: 1. Products are also available without detection pins to detect incomplete mating. These products would come with all pins inserted without detection hooks.
2. This product displays (LF)(SN) on a label.
3. For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

Retainer



No. of pins	Model No.	Dimensions (mm)		Q'ty/bag
		A	B	
10	PNIS-05V	8.0	12.3	1,000
12	PNIS-06V	10.0	14.3	1,000
14	PNIS-07V	12.0	16.3	1,000
16	PNIS-08V	14.0	18.3	1,000
18	PNIS-09V	16.0	20.3	1,000
20	PNIS-10V	18.0	22.3	1,000
22	PMS-11V-S	20.0	21.55	1,000
24	PMS-12V-S	22.0	23.55	1,000
26	PMS-13V-S	24.0	25.55	1,000
30	PMS-15V-S	28.0	29.55	1,000

Material and Surface finish, etc.

PA 66 (Glass-filled), natural

- Note: 1. Please select the following 2 types of retainers accordingly:
20 pins or less: PNIS-**V (from PNI connector)
22 pins or more: PMS-**V-S (from PA connector)
When using 2 retainers at once, select the retainer type based on the number of pins.
2. For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

Model number allocation

Contact

S PID - 001 T - P 0.5

Supply form: Strip form

Series name

Applicable wire range: AWG #26 to AWG #22

Surface finish: Tin-plated

Material: Copper alloy

Applicable post size

Socket housing

PID RP - 10 V - S

Series name

Type: Plug (retainer compatible)

No. of circuits

Sub model number

Color: S··Natural, K··Black

Header

B 10 B - PID S S - 1

Header type: Top entry type

No. of circuits

Assembly product

Series name

Color: S··Natural, K··Black

Clinched (Kinked) / Not clinched: Straight

Polarizing boss: No indication··Without boss, 1·· With boss

Retainer < For 10 to 20 circuits >

PNI S - 05 V

Series name

Type: Retainer

No. of circuits

Sub model number

Retainer < For 22 to 26, 30 circuits >

PM S - 11 V - S

Series name

Type: Retainer

No. of circuits

Sub model number

Color: Natural