

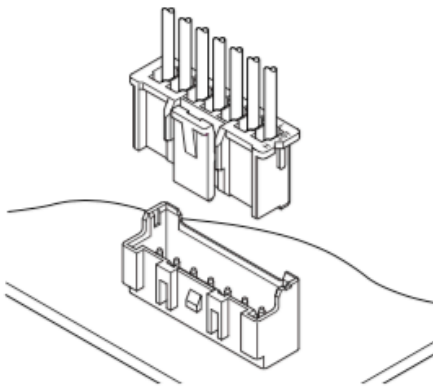
# XA Connector

2.5 mm pitch / Disconnectable Crimp style connectors



## XA CONNECTOR

2.5mm pitch / Disconnectable Crimp style connectors



- Secure lock device
- Solder crack preventive material
- Low insertion force
- Insertion guide mechanism
- Applicable to automatic board mounting machine
- Polarizing boss

### Specifications

- Current rating: 3 A AC DC (AWG #22, #20)
- 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: 1,000 VAC/minute
- Applicable wire: AWG #28 to #20
- Applicable PC board thickness: 1.6 mm

\* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.  
\* Contact JST for details.  
\* Compliant with RoHS.

### Standards

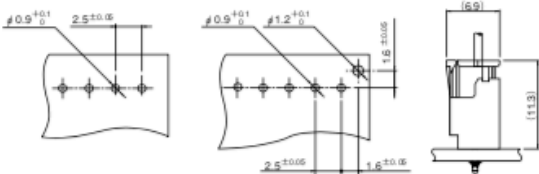
- Ⓜ Recognized E 60389
- Ⓜ Certified LR 20812
- Ⓜ R9851220

### PC board layout and Assembly layout

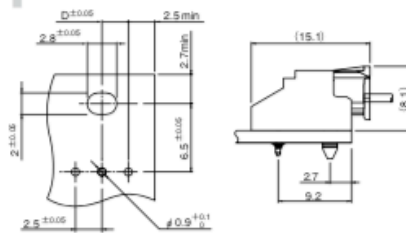
#### < Through-hole type >

##### Top entry type

without a boss      with a boss



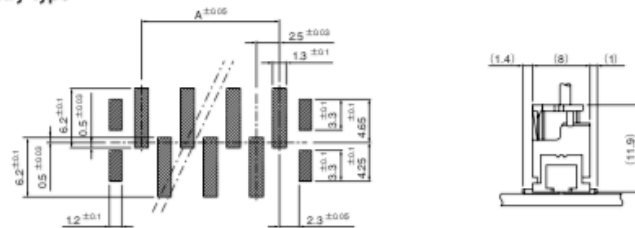
##### Side entry type



Dimension D: Refer to the Model No. chart of header side entry type.

#### < SMT type >

##### Top entry type

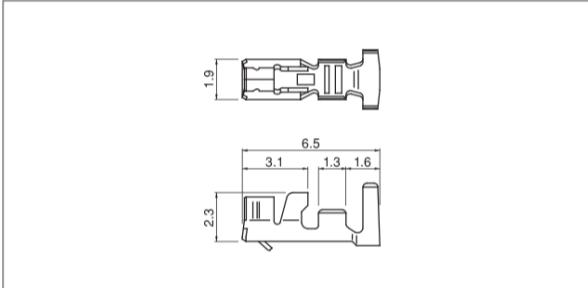


Note: 1. The above figure is the figure viewed from the connector mounting side.  
2. Tolerances are non-cumulative: ±0.05 mm for all centers.  
3. Hole dimensions differ according to the type of PC board and piercing method.  
The dimensions above should serve as a guideline. Contact JST for details.

# XA Connector

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## Contact



Model No.	Applicable wire			Q'ty / reel
	mm <sup>2</sup>	AWG#	Insulation O.D. (mm)	
<b>SXA-001T-P0.6</b>	0.08 ~ 0.33	28~22	1.2~1.9	8,000
<b>SXA-01T-P0.6</b>	0.22 ~ 0.5	24~20	1.5~1.9	8,000
<b>SXA-001T-P0.6L</b>	0.13 ~ 0.33	26~22	1.3~1.7	8,000

### Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

### RoHS compliance

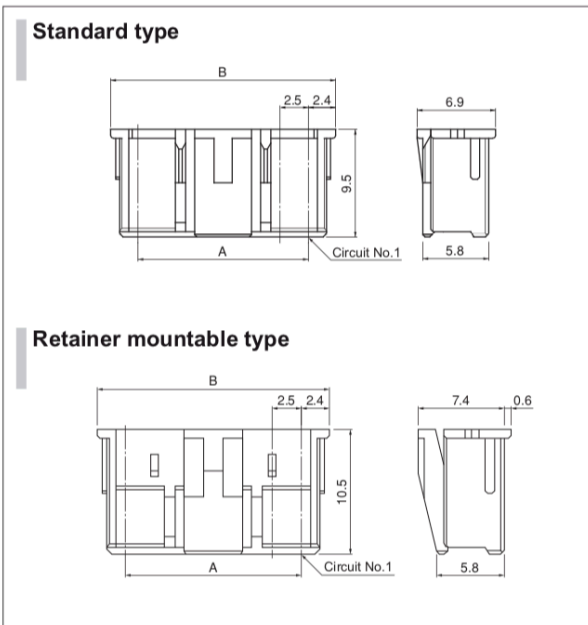
Note :1. SXA-001T-P0.6L is low-insertion force type contact, for easier insertion/withdrawal, which would be less resistant to the vibration. The crimp height is different from the standard contact.  
2. Contact JST for gold-plated products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
<b>SXA-001T-P0.6</b>	AP-K2N	MKS-L	MK/SXA/M-001-06	APLMK SXA/M001-06
		*MKS-SC	SC/SXA/M-001-06	APLSC SXA/M001-06
<b>SXA-001T-P0.6L</b>	AP-K2N	MKS-L	MK/SXA-001-06L	APLMK SXA001-06L
		*MKS-SC	SC/SXA-001-06L	APLSC SXA001-06L

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
<b>SXA-01T-P0.6</b>	AP-K2N	MKS-L	MK/SXA/M-01-06	APLMK SXA/M01-06
		*MKS-SC	SC/SXA/M-01-06	APLSC SXA/M01-06

Note: \*Strip-crimp applicator

## Housing



Cir- cuits	Model No.		Dimensions (mm)		Q'ty / bag	
	Standard type	Retainer mountable type	A	B	Standard type	Retainer mountable type
2	<b>XAP-02V-1</b>	<b>XARP-02V</b>	2.5	7.3	1,000	1,000
3	<b>XAP-03V-1</b>	<b>XARP-03V</b>	5.0	9.8	1,000	1,000
4	<b>XAP-04V-1</b>	<b>XARP-04V</b>	7.5	12.3	1,000	1,000
5	<b>XAP-05V-1</b>	<b>XARP-05V</b>	10.0	14.8	1,000	1,000
6	<b>XAP-06V-1</b>	<b>XARP-06V</b>	12.5	17.3	1,000	1,000
7	<b>XAP-07V-1</b>	<b>XARP-07V</b>	15.0	19.8	1,000	1,000
8	<b>XAP-08V-1</b>	<b>XARP-08V</b>	17.5	22.3	1,000	1,000
9	<b>XAP-09V-1</b>	<b>XARP-09V</b>	20.0	24.8	1,000	1,000
10	<b>XAP-10V-1</b>	<b>XARP-10V</b>	22.5	27.3	1,000	1,000
11	<b>XAP-11V-1</b>	<b>XARP-11V</b>	25.0	29.8	1,000	1,000
12	<b>XAP-12V-1</b>	<b>XARP-12V</b>	27.5	32.3	1,000	1,000
13	<b>XAP-13V-1</b>	<b>XARP-13V</b>	30.0	34.8	1,000	1,000
14	<b>XAP-14V-1</b>	<b>XARP-14V</b>	32.5	37.3	500	1,000
15	<b>XAP-15V-1</b>	<b>XARP-15V</b>	35.0	39.8	500	1,000
18	—	<b>XARP-18V</b>	42.5	47.3	—	500
20	<b>XAP-20V-1</b>	—	47.5	52.3	500	—

### Material

PA 66, UL94V-0, natural (white)

### RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.  
For availability, delivery and minimum order quantity, contact JST.

<Standard type>

ex. **XAP-02V-1-oo**  
(blank)...natural (white)  
K...black R...red E...blue Y...yellow L...lemon yellow  
M...green O...orange N...brown H...gray P...purple  
LE...light blue PK...pink FY...vivid yellow Z...ivory

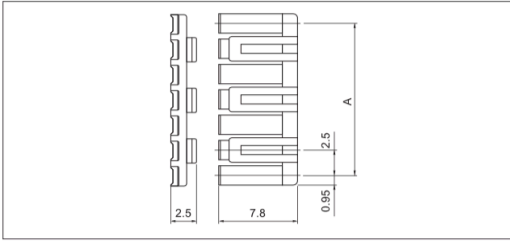
<Retainer mountable type>

ex. **XARP-02V-oo**  
(blank)...natural (white)  
K...black R...red E...blue L...lemon yellow

# XA Connector

2.5 mm pitch / Disconnectable Crimp style connectors

## Retainer



Material

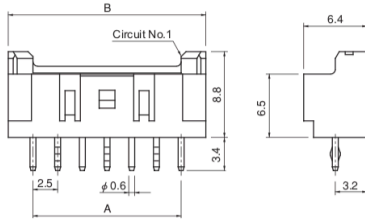
Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

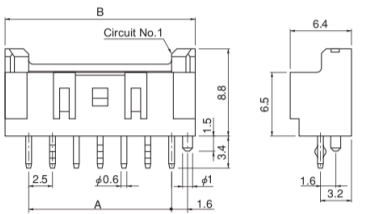
Circuits	Model No.	A	Qty / bag
2	<b>XMS-02V</b>	2.5	1,000
3	<b>XMS-03V</b>	5.0	1,000
4	<b>XMS-04V</b>	7.5	1,000
5	<b>XMS-05V</b>	10.0	1,000
6	<b>XMS-06V</b>	12.5	1,000
7	<b>XMS-07V</b>	15.0	1,000
8	<b>XMS-08V</b>	17.5	1,000
9	<b>XMS-09V</b>	20.0	1,000
10	<b>XMS-10V</b>	22.5	1,000
11	<b>XMS-11V</b>	25.0	1,000
12	<b>XMS-12V</b>	27.5	1,000
13	<b>XMS-13V</b>	30.0	1,000
14	<b>XMS-14V</b>	32.5	1,000
15	<b>XMS-15V</b>	35.0	1,000

## Through-hole type shrouded header

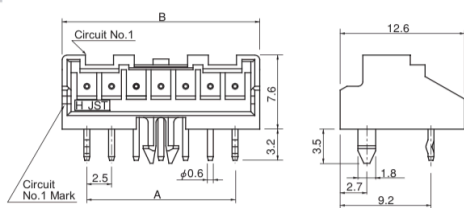
### Top entry type without a boss



### Top entry type with a boss



### Side entry type with a hook



Circuits	Model No.		Dimensions (mm)		Qty / box
	Top entry type		A	B	
2	<b>B02B-XASK-1</b>	<b>B02B-XASK-1-A</b>	2.5	7.5	1,000
3	<b>B03B-XASK-1</b>	<b>B03B-XASK-1-A</b>	5.0	10.0	400
4	<b>B04B-XASK-1</b>	<b>B04B-XASK-1-A</b>	7.5	12.5	400
5	<b>B05B-XASK-1</b>	<b>B05B-XASK-1-A</b>	10.0	15.0	400
6	<b>B06B-XASK-1</b>	<b>B06B-XASK-1-A</b>	12.5	17.5	400
7	<b>B07B-XASK-1</b>	<b>B07B-XASK-1-A</b>	15.0	20.0	250
8	<b>B08B-XASK-1</b>	<b>B08B-XASK-1-A</b>	17.5	22.5	250
9	<b>B09B-XASK-1</b>	<b>B09B-XASK-1-A</b>	20.0	25.0	250
10	<b>B10B-XASK-1</b>	<b>B10B-XASK-1-A</b>	22.5	27.5	250
11	<b>B11B-XASK-1</b>	<b>B11B-XASK-1-A</b>	25.0	30.0	200
12	<b>B12B-XASK-1</b>	<b>B12B-XASK-1-A</b>	27.5	32.5	200
13	<b>B13B-XASK-1</b>	<b>B13B-XASK-1-A</b>	30.0	35.0	100
14	<b>B14B-XASK-1</b>	<b>B14B-XASK-1-A</b>	32.5	37.5	100
15	<b>B15B-XASK-1</b>	<b>B15B-XASK-1-A</b>	35.0	40.0	100
20	<b>B20B-XASK-1</b>	<b>B20B-XASK-1-A</b>	47.5	52.5	100

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)  
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance This product displays (LF)(SN) on a label.  
Note: Contact JST for gold-plated products.

Circuits	Model No.		Dimensions (mm)			Qty / box
	Side entry type with a hook		A	B	D	
2	<b>S02B-XASS-1</b>		2.5	7.5	1.25	250
3	<b>S03B-XASK-1</b>		5.0	10.0	2.50	250
4	<b>S04B-XASK-1</b>		7.5	12.5	3.75	200
5	<b>S05B-XASK-1</b>		10.0	15.0	5.00	200
6	<b>S06B-XASK-1</b>		12.5	17.5	6.25	200
7	<b>S07B-XASK-1</b>		15.0	20.0	7.50	200
8	<b>S08B-XASK-1</b>		17.5	22.5	8.75	100
9	<b>S09B-XASK-1</b>		20.0	25.0	10.00	100
10	<b>S10B-XASK-1</b>		22.5	27.5	11.25	100
11	<b>S11B-XASK-1</b>		25.0	30.0	12.50	100
12	<b>S12B-XASK-1</b>		27.5	32.5	13.75	100
13	<b>S13B-XASK-1</b>		30.0	35.0	15.00	100
14	<b>S14B-XASK-1</b>		32.5	37.5	16.25	100

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)  
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance This product displays (LF)(SN) on a label.  
Note: 1. Dimension D...See PC board layout.  
2. Contact JST for gold-plated products.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.  
For availability, delivery and minimum order quantity, contact JST.

ex. **S02B-XASK-1**  
S...natural (ivory)  
K...black R...red E...blue M...green Y...yellow

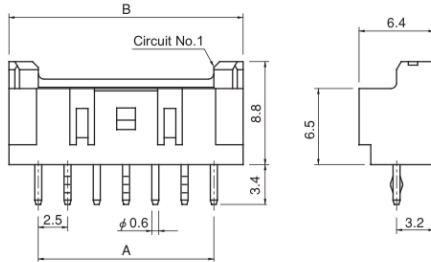
# XA Connector

2.5 mm pitch / Disconnectable Crimp style connectors

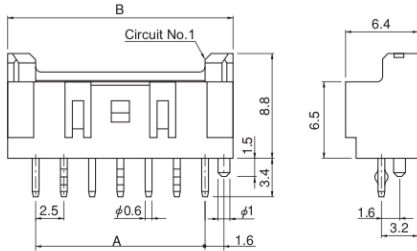
## Through-hole type shrouded header

### N type

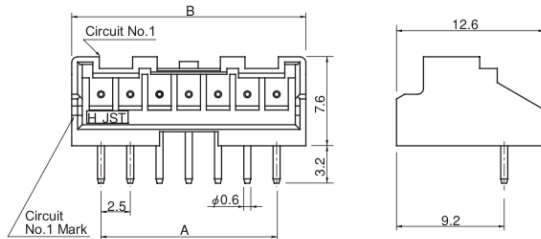
#### Top entry type without a boss



#### Top entry type with a boss



#### Side entry type without a hook



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Top entry type		A	B	
2	B02B-XASK-1N	B02B-XASK-1N-A	2.5	7.5	1,000
3	B03B-XASK-1N	B03B-XASK-1N-A	5.0	10.0	400
4	B04B-XASK-1N	B04B-XASK-1N-A	7.5	12.5	400
5	B05B-XASK-1N	B05B-XASK-1N-A	10.0	15.0	400
6	B06B-XASK-1N	B06B-XASK-1N-A	12.5	17.5	400
7	B07B-XASK-1N	B07B-XASK-1N-A	15.0	20.0	250
8	B08B-XASK-1N	B08B-XASK-1N-A	17.5	22.5	250
9	B09B-XASK-1N	B09B-XASK-1N-A	20.0	25.0	250
10	B10B-XASK-1N	B10B-XASK-1N-A	22.5	27.5	250
11	B11B-XASK-1N	B11B-XASK-1N-A	25.0	30.0	200
12	B12B-XASK-1N	B12B-XASK-1N-A	27.5	32.5	200
13	B13B-XASK-1N	B13B-XASK-1N-A	30.0	35.0	100
14	B14B-XASK-1N	B14B-XASK-1N-A	32.5	37.5	100
15	B15B-XASK-1N	B15B-XASK-1N-A	35.0	40.0	100
18	B18B-XASK-1N	—	42.5	47.5	100

#### Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)  
Wafer: Glass-filled PA 66, UL94V-0, natural (white)

**RoHS compliance** This product displays (LF)(SN) on a label.  
Note: Not TÜV approved.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.  
For availability, delivery and minimum order quantity, contact JST.

ex. **B02B-XASK-1N-A**  
S...natural (white)  
K...black R...red E...blue Y...yellow L...lemon yellow  
M...green O...orange N...brown H...gray P...purple  
LE...light blue PK...pink FY...vivid yellow

Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Side entry type without a hook		A	B	
2	S02B-XASS-1N-BN	S02B-XASS-1N-BN	2.5	7.5	250
3	S03B-XASS-1N-BN	S03B-XASS-1N-BN	5.0	10.0	250
4	S04B-XASS-1N-BN	S04B-XASS-1N-BN	7.5	12.5	200
5	S05B-XASS-1N-BN	S05B-XASS-1N-BN	10.0	15.0	200
6	S06B-XASS-1N-BN	S06B-XASS-1N-BN	12.5	17.5	200
7	S07B-XASS-1N-BN	S07B-XASS-1N-BN	15.0	20.0	200
8	S08B-XASS-1N-BN	S08B-XASS-1N-BN	17.5	22.5	100
9	S09B-XASS-1N-BN	S09B-XASS-1N-BN	20.0	25.0	100
10	S10B-XASS-1N-BN	S10B-XASS-1N-BN	22.5	27.5	100
11	S11B-XASS-1N-BN	S11B-XASS-1N-BN	25.0	30.0	100
12	S12B-XASS-1N-BN	S12B-XASS-1N-BN	27.5	32.5	100
13	S13B-XASS-1N-BN	S13B-XASS-1N-BN	30.0	35.0	100
14	S14B-XASS-1N-BN	S14B-XASS-1N-BN	32.5	37.5	100

#### Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)  
Wafer: Glass-filled PA 66, UL94V-0, natural (white)

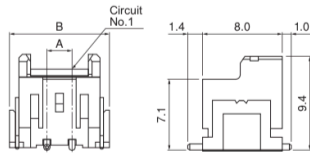
**RoHS compliance** This product displays (LF)(SN) on a label.  
Note: 1. As for side entry type, we recommend to use a product with a boss (hook) because stress is applied directly to fillet part when handling the wire. When using the side entry type product without a boss (hook), please handle the wire with care.  
2. Not TÜV approved.

# XA Connector

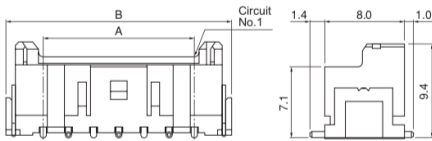
2.5 mm pitch / Disconnectable Crimp style connectors

## SMT type shrouded header

(2 circuits)



(3 to 15 circuits)



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
2	<b>BM02B-XASS-TF</b>	2.5	10.0	500
3	<b>BM03B-XASS-TF</b>	5.0	12.5	500
4	<b>BM04B-XASS-TF</b>	7.5	15.0	500
5	<b>BM05B-XASS-TF</b>	10.0	17.5	500
6	<b>BM06B-XASS-TF</b>	12.5	20.0	500
7	<b>BM07B-XASS-TF</b>	15.0	22.5	500
8	<b>BM08B-XASS-TF</b>	17.5	25.0	500
9	<b>BM09B-XASS-TF</b>	20.0	27.5	500
12	<b>BM12B-XASS-TF</b>	27.5	35.0	500
13	<b>BM13B-XASS-TF</b>	30.0	37.5	500
15	<b>BM15B-XASS-TF</b>	35.0	42.5	500

### Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)  
Wafer: PA, UL94V-0, natural  
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

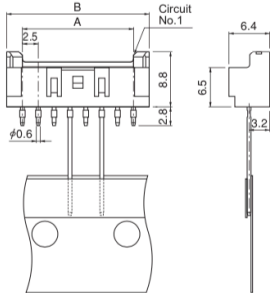
**RoHS compliance** This product displays (LF)(SN) on a label.

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

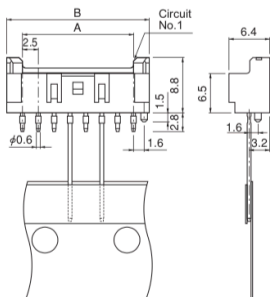
ex. **BM02B-XASS-TF**  
S...natural  
K...black R...red E...blue M...green D...orange  
L...lemon yellow

## Through-hole type shrouded header on radial-tape

Top entry type without a boss



Top entry type with a boss



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Top entry type without a boss	Top entry type with a boss	A	B	
2	<b>B02B-XASS-1-T</b>	—	2.5	7.5	1,000
3	<b>B03B-XASS-1-T</b>	<b>B03B-XASS-1-A-T</b>	5.0	10.0	1,000
4	<b>B04B-XASS-1-T</b>	<b>B04B-XASS-1-A-T</b>	7.5	12.5	500
5	<b>B05B-XASS-1-T</b>	<b>B05B-XASS-1-A-T</b>	10.0	15.0	500
6	<b>B06B-XASS-1-T</b>	<b>B06B-XASS-1-A-T</b>	12.5	17.5	500
7	<b>B07B-XASS-1-T</b>	<b>B07B-XASS-1-A-T</b>	15.0	20.0	500
8	<b>B08B-XASS-1-T</b>	<b>B08B-XASS-1-A-T</b>	17.5	22.5	500

### Material and Finish

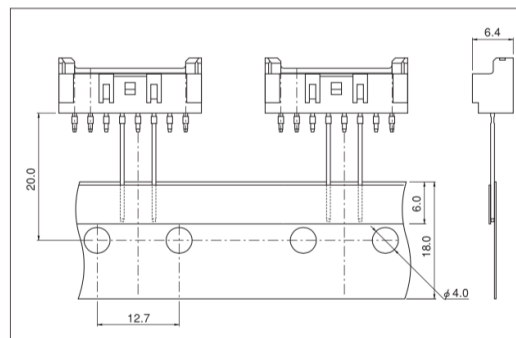
Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)  
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

**RoHS compliance** This product displays (LF)(SN) on a label.

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **B03B-XASS-1-A-T**  
S...natural (ivory)  
R...red E...blue M...green

## Taping specifications



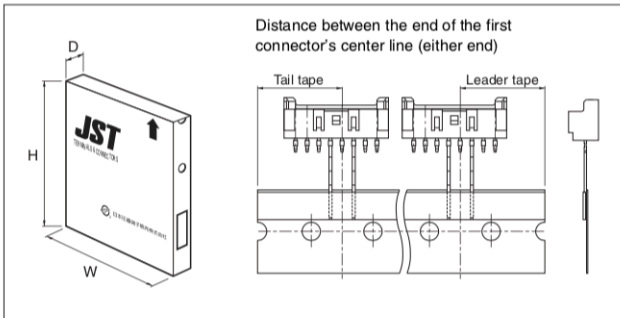
Note: Conforms to JIS C 0806.

# XA Connector

2.5 mm pitch / Disconnectable Crimp style connectors

## XA CONNECTOR

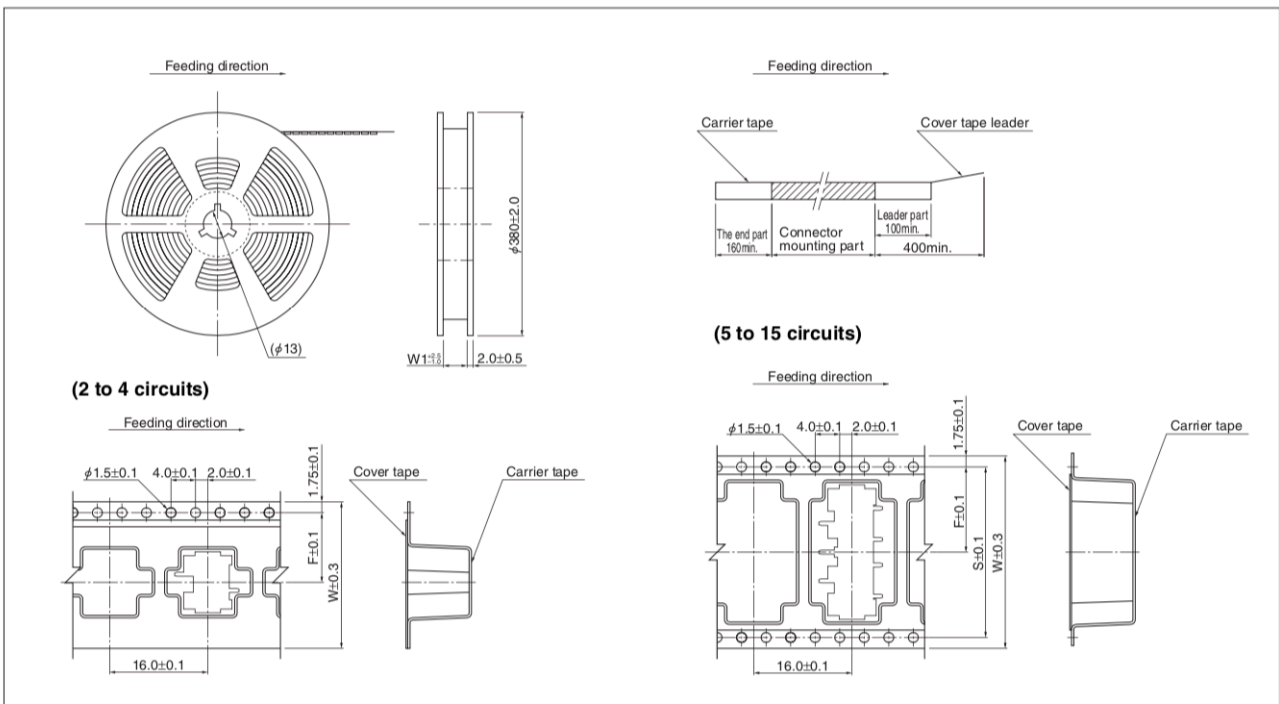
### Packaging specifications of through-hole type shrouded header



Package type	Flat pack (zigzag folded)
Distance between folds	24 indexing holes per fold (304.8mm)
Box size	316(W)×45(D)×330(H)mm
Distance between the end of the tape and the first connector's center line (either end)	19.05mm

Note: Products of different packaging specifications are also available. Contact JST for details.

### Taping specifications of SMT type shrouded header



Circuits	Taping dimensions (mm)			Reel dimensions (mm)		Q'ty / reel
	F	S	W	W1		
2 to 4	11.5	-	24.0	25.5	500	
5	14.2	28.4	32.0	33.5	500	
6 to 9	20.2	40.4	44.0	45.5	500	
12 to 15	26.2	52.4	56.0	57.5	500	

Note:  
1. Specifications conform to JIS C 0806. The tape width, connector recess dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.  
2. Specifications are subject to change without prior notice.