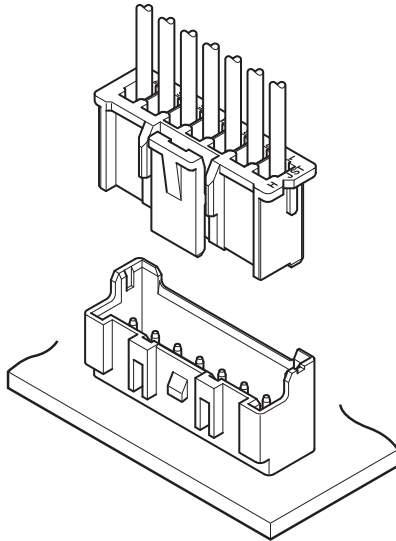


XA CONNECTOR

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



- Secure lock mechanism
- Solder crack preventive material
- Low insertion force
- Keyed housing structure to guide mating process
- Compatible with pick and place machine for automatic PCB assembly (header with tape & reel packaging available)
- Headers with boss available for polarization

Specifications

- Current rating: 3 A AC/DC (AWG #22, AWG #20)
- Voltage rating: 250 V AC/DC
- Temperature range: -40°C to +105°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10 mΩ max.
After test/ 20 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage:
There shall be no breakdown or flashover while applying 1,000 VAC for one minute.
- Applicable wire range:
Conductor size/ AWG #28 to AWG #20
Insulation O.D. / ϕ 0.8 mm to ϕ 1.9 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

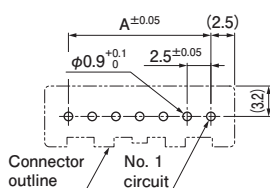
For information on overseas standard registrations, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

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

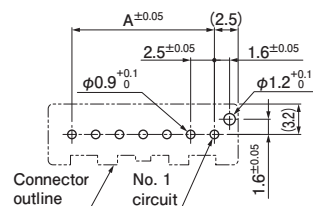
PC board layout and Assembly layout/ Through-hole type

Top entry type

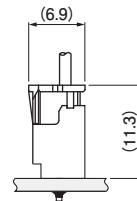
- Without boss



- With boss



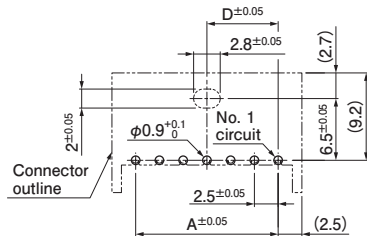
Housing: Standard type



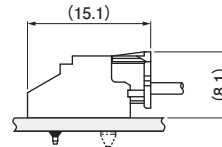
Note: 1. The PC board layout figure shown is viewed from the connector mounting surface.
2. Dimensions A and D: See "Header" section on page 4.
3. Tolerance for the PCB hole pitch shall be ± 0.05 , and shall not accumulate more than ± 0.05 .
4. Hole dimensions differ depending on the type of PCB and PCB drilling method.
The above dimensions are for reference only. Please contact JST for further details.

PC board layout and Assembly layout/ Through-hole type

Side entry type



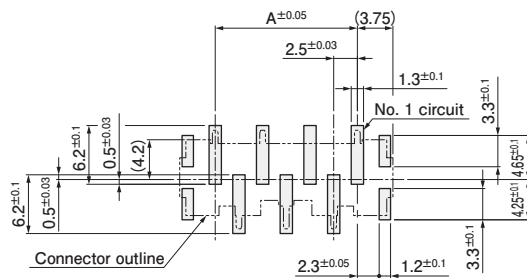
Housing: Standard type



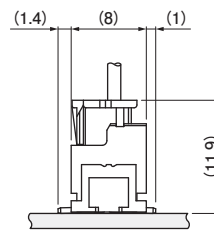
- Note: 1. The PC board layout figure shown is viewed from the connector mounting surface.
 2. Dimensions A and D: See "Header" section on page 4.
 3. Tolerance for the PCB hole pitch shall be ± 0.05 , and shall not accumulate more than ± 0.05 .
 4. Hole dimensions differ depending on the type of PCB and PCB drilling method.
 The above dimensions are for reference only. Please contact JST for further details.

PC board layout and Assembly layout/ SMT type

Top entry type

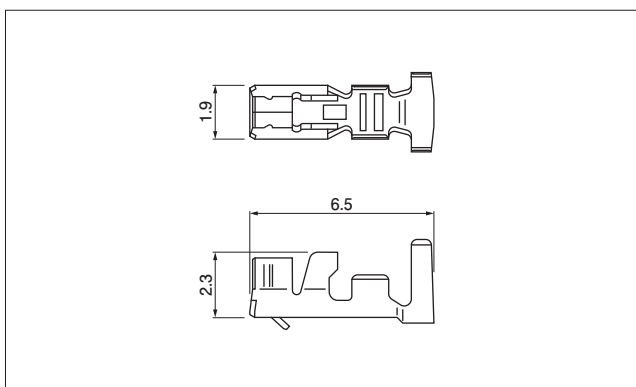


Housing: Standard type



- Note: 1. The PC board layout figure shown is viewed from the connector mounting surface.
 2. Dimension A: See "Header/ SMT type" section on page 6.
 3. Tolerance for the PCB pattern pitch shall be ± 0.03 , and shall not accumulate more than ± 0.05 .
 4. The above dimensions are for reference only. Please contact JST for further details.

Contact



Model No.	Applicable wire range		Q'ty/ reel
	Conductor size AWG (mm ²)	Insulation O.D. (mm)	
SXA-001T-P0.6	#28 to #22 (0.08 to 0.33)	0.8 to 1.9	8,000
SXA-01T-P0.6	#24 to #20 (0.22 to 0.5)	1.5 to 1.9	8,000
SXA-001T-P0.6L	#26 to #22 (0.13 to 0.33)	1.3 to 1.7	8,000

Material and Surface finish, etc.

Copper alloy, tin-plated

- Note: 1. SXA-001T-P0.6L is a low-insertion force type contact for easier insertion/withdrawal operation. Please take the application and environment into consideration as the low-insertion force type contact is less resistant to vibration. Please note that the crimp height is different from the standard XA contact.
 2. Contact JST for gold-plated products.

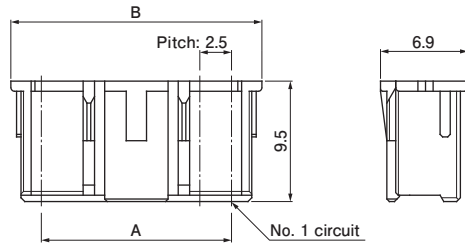
Crimping machine

Contact	Crimping machine	Applicator	Crimp applicator with dies
SXA-001T-P0.6	AP-K2N	MKS-L	APLMK SXA/M001-06
SXA-01T-P0.6			APLMK SXA/M01-06
SXA-001T-P0.6L			APLMK SXA001-06L

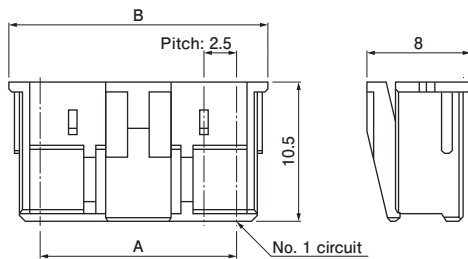
Note: Contact JST for fully automatic crimping applicator.

Housing

Standard type



Retainer compatible type



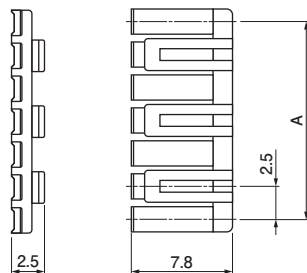
No. of circuits	Model No.		Dimensions (mm)		Q'ty/bag	
	Standard type	Retainer compatible type	A	B	Standard type	Retainer compatible type
2	XAP-02V-1	XARP-02V	2.5	7.3	1,000	1,000
3	XAP-03V-1	XARP-03V	5.0	9.8	1,000	1,000
4	XAP-04V-1	XARP-04V	7.5	12.3	1,000	1,000
5	XAP-05V-1	XARP-05V	10.0	14.8	1,000	1,000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

Material and Surface finish, etc.

PA, natural (white)

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).

Retainer



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

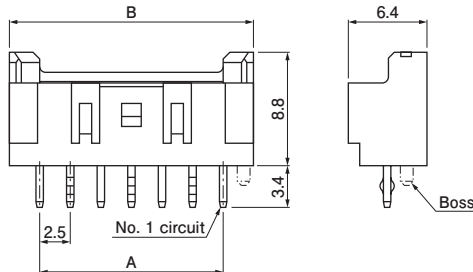
Material and Surface finish, etc.

PA (GF), natural (ivory)

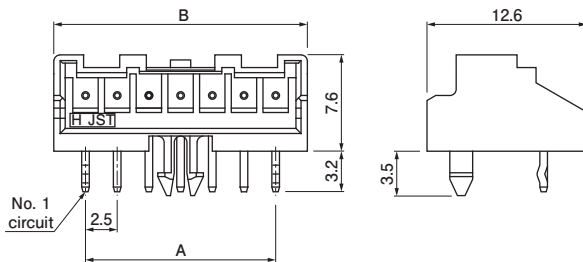
Note: For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

Header/ Through-hole type

Top entry type



Side entry type • With hook



Top entry type

No. of circuits	Model No.		Dimensions (mm)		Q'ty/box
	Without boss	With boss	A	B	
2	B02B-XASK-1	B02B-XASK-1-A	2.5	7.5	1,000
3	B03B-XASK-1	B03B-XASK-1-A	5.0	10.0	400
4	B04B-XASK-1	B04B-XASK-1-A	7.5	12.5	400
5	B05B-XASK-1	B05B-XASK-1-A	10.0	15.0	400
6	B06B-XASK-1	B06B-XASK-1-A	12.5	17.5	400
7	B07B-XASK-1	B07B-XASK-1-A	15.0	20.0	250
8	B08B-XASK-1	B08B-XASK-1-A	17.5	22.5	250
9	B09B-XASK-1	B09B-XASK-1-A	20.0	25.0	250
10	B10B-XASK-1	B10B-XASK-1-A	22.5	27.5	250
11	B11B-XASK-1	B11B-XASK-1-A	25.0	30.0	200
12	B12B-XASK-1	B12B-XASK-1-A	27.5	32.5	200
13	B13B-XASK-1	B13B-XASK-1-A	30.0	35.0	100
14	B14B-XASK-1	B14B-XASK-1-A	32.5	37.5	100
15	B15B-XASK-1	B15B-XASK-1-A	35.0	40.0	100
20	B20B-XASK-1	B20B-XASK-1-A	47.5	52.5	100

Material and Surface finish, etc.

Pin: Copper alloy, tin-plated
Base housing: PA (GF), natural (ivory)

Note: 1. This product displays (LF)(SN) on a label.
2. Contact JST for gold-plated products.
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).

Side entry type

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

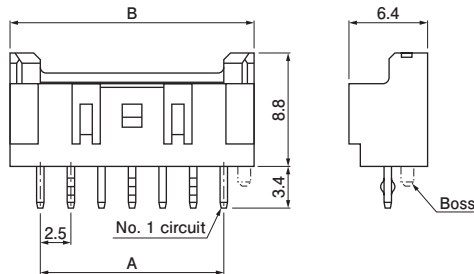
Material and Surface finish, etc.

Pin: Copper alloy, tin-plated
Base housing: PA (GF), natural (ivory)

Note: 1. This product displays (LF)(SN) on a label.
2. Contact JST for gold-plated products.
3. Dimensions D refer to the PCB layout dimensions.
4. 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).

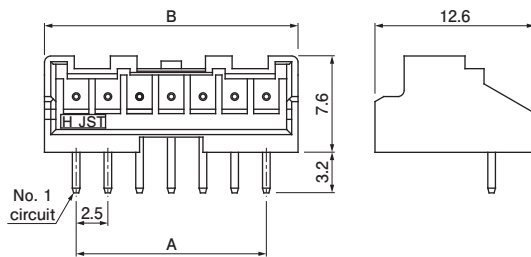
Header/ Through-hole type/ N type

Top entry type



Side entry type

• Without hook



Top entry type

No. of circuits	Model No.		Dimensions (mm)		Q'ty/box
	Without boss	With boss	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 Surface finish, etc.

Pin: Copper alloy, tin-plated

Base housing: PA (GF), natural (white)

Note: 1. This product displays (LF)(SN) on a label.

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).

Side entry type

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

Material and Surface finish, etc.

Pin: Copper alloy, tin-plated

Base housing: PA (GF), natural (white)

Note: 1. This product displays (LF) (SN) on a label.

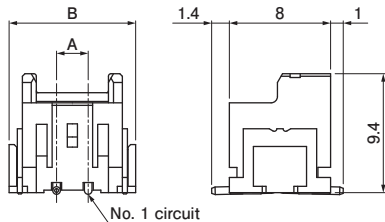
2. Please note that due to routing, pulling and twisting of the electrical wires, there is risk that the base pin may separate from the PCB. Excessive stress may also affect the solder fillet section on the PCB, thereby weakening header pin retention. We therefore recommend using the side entry header with hooks as a prevention measure. When using the header without hooks, please handle the wire with care.

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).

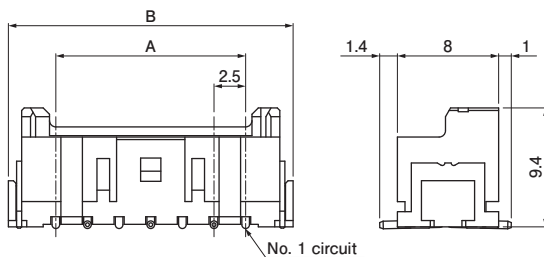
Header/ SMT type

Top entry type

<2 circuits>



<3 to 9, 12, 13, 15 circuits>



Top entry type

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

Material and Surface finish, etc.

Pin: Copper alloy, tin-plated

Base housing: PA (Heat Resistance), natural

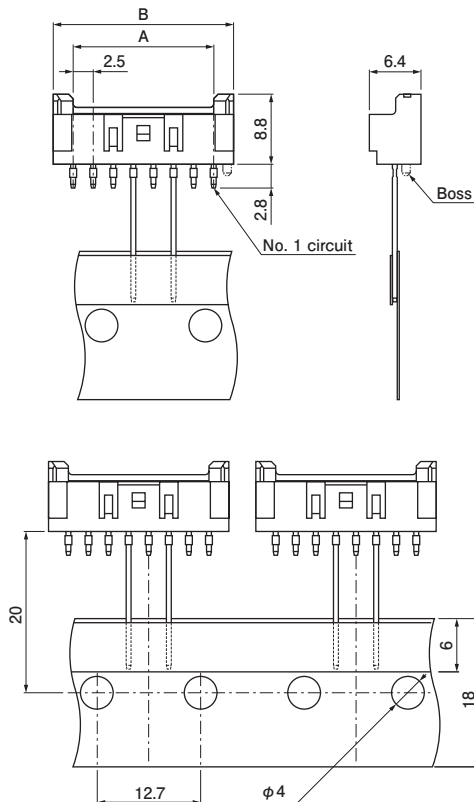
Reinforcing tab: Copper alloy, tin-plated

Note: 1. This product displays (LF)(SN) on a label.

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).

Header/ Radial taping

Top entry type



Top entry type

No. of circuits	Model No.		Dimensions (mm)		Q'ty/box
	Without boss	With boss	A	B	
2	B02B-XASS-1-T	—	2.5	7.5	1,000
3	B03B-XASS-1-T	B03B-XASS-1-A-T	5.0	10.0	1,000
4	B04B-XASS-1-T	B04B-XASS-1-A-T	7.5	12.5	500
5	B05B-XASS-1-T	B05B-XASS-1-A-T	10.0	15.0	500
6	B06B-XASS-1-T	B06B-XASS-1-A-T	12.5	17.5	500
7	B07B-XASS-1-T	B07B-XASS-1-A-T	15.0	20.0	500
8	B08B-XASS-1-T	B08B-XASS-1-A-T	17.5	22.5	500

Material and Surface finish, etc.

Pin: Copper alloy, tin-plated

Base housing: PA (GF), natural (ivory)

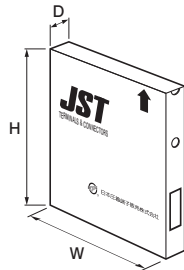
Note: 1. This product displays (LF)(SN) on a label.

2. This product conforms to IEC 60286-2 (JIS C 0806-2), the standard for tape packaging of components with unidirectional leads on continuous tapes.

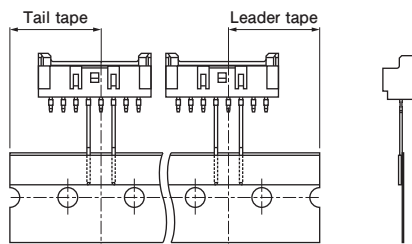
3. For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

Header/ Radial taping

Packaging specifications



Distance between the end of the tape and the first connector's center line (either end)



Packaging specifications

Packaging style		Flat pack (zigzag folded)
Distance between folds		24 index holes per fold (304.8 mm)
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)		19.05 mm
Quantity per package	2, 3 circuits	1,000 pcs./box
	4 to 8 circuits	500 pcs./box

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

Model number allocation

Contact

S XA - 001 T - P 0.6

Supply form: S...Strip form
B...Loose piece

Series name

Applicable wire range:

Normal type: 001...AWG #28 to AWG #22
01...AWG #24 to AWG #20

Low insertion force type:

001...AWG #26 to AWG #22

Surface finish: Tin-plated

Material: Copper alloy

Applicable pin size

Type: No indication...Standard type

L...Low insertion force type

Housing/ Standard type

XAP - 02 V - 1 -

Series name

Type: Plug

No. of circuits

Sub model number

Sub model number

Color: No indication...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...Fluorescent yellow, Z...Ivory

Housing/ Retainer compatible type

XARP - 02 V -

Series name

Type: Plug (Retainer compatible type)

No. of circuits

Sub model number

Color: No indication...Natural (White), K...Black, R...Red, E...Blue, M...Green, Y...Yellow

Retainer

XM S - 02 V

Series name

Type: Retainer

No. of circuits

Sub model number

Model number allocation

Header/ Through-hole type/ Top entry type

B 02 B - XA S K - 1 -

Header type: Top entry type

No. of circuits

Assembly product

Series name

Color: S...Natural (Ivory), K...Black, R...Red,
E...Blue, M...Green, Y...Yellow

Clinched (Kinked) / Not clinched: S...Straight
K...Clinched

Sub model number

Polarizing boss: No indication...Without boss, A...With boss

Header/ Through-hole type/ Side entry type

S 02 B - XA S S - 1 -

Header type: Side entry type

No. of circuits

Assembly product

Series name

Color: S...Natural (Ivory), K...Black, R...Red,
E...Blue, M...Green, Y...Yellow

Clinched (Kinked) / Not clinched: S...Straight
K...Clinched

Sub model number

Hook: No indication...With hook, BN...Without hook

Header/ Through-hole type/ N type/ Top entry type

B 02 B - XA S K - 1 N - A

Header type: Top entry type

No. of circuits

Assembly product

Series name

Color: 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...Fluorescent yellow

Clinched (Kinked) / Not clinched: S...Straight
K...Clinched

Sub model number

Type

Polarizing boss: No indication...Without boss, A...With boss

Header/ Through-hole type/ N type/ Side entry type

S 02 B - XA S S - 1 N - BN

Header type:
Side entry type

No. of circuits

Assembly product

Series name

Color: S...Natural (White),
R...Red, M...Green

Clinched (Kinked) / Not clinched: Straight

Sub model number

Type

Hook: Without hook

Header/ SMT type

BM 02 B - XA S S - TF

Header type: Top entry type

No. of circuits

Assembly product

Series name

Color: S...Natural, K...Black, R...Red, E...Blue

Sub model number

Packaging style: Embossed-taping

Header/ Radial taping

B 03 B - XA S S - 1 - - T

Header type:
Top entry type

No. of circuits

Assembly product

Series name

Color: Natural (Ivory), R...Red,
E...Blue, M...Green

Sub model number

Sub model number

Polarizing boss: No indication...Without boss
A...With boss

Packaging style: Radial taping