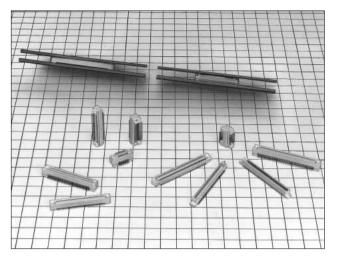
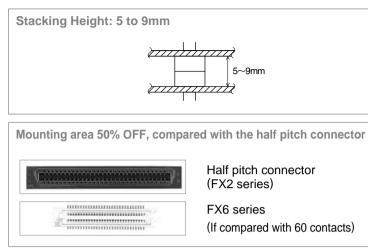
The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at www.hirose-connectors.com, or contact your Hirose sales representative.

0.8mm Pitch Stacking Height 5 to 9mm Connector

FX6 Series





The standard packaging specification specifies the stick

package, considering the automatic mount, while the emboss package can also correspond to the connector with less than

80 contacts. (However, the product is limited to 80 contacts.)

The lead coplanarity on the SMT soldered area is maintained

with the high accuracy of less than 0.1mm.

Features

- 1. Stacking Height 5 to 9mm The board to board stacking height can be set at every millimeter between 5 and 9mm.
- 2. Effective Contact Length 1.7mm

Despite the low profile type connector, the connector has the 1.7mm long effective contact length and provides a margin sufficient to contact.

3. Mating Guide

The self-alignment for mating action exhibits a high guide level at \pm 1mm, and makes the mating process easier by providing the guide rib.

Applications

Note PC, business equipments such as handy terminals, and other equipment which require miniaturization or light-weight.

4. Automatic Mounting

5. SMT Coplanarity

| Rating | Current rating 0.5A Voltage rating 100V AC | Operating Temperature Range -55°C to Operating Humidity Range 40% | | Storage Temperature Range -10°C to +60°C Note 2. Storage Humidity Range 40% to 70% | | | |
|----------------------------------|---|--|---|---|--|--|--|
| Item | Spe | cification | Condition | | | | |
| 1. Insulation Resistance | 100M ohms min | | 250V DC | | | | |
| 2. Withstanding voltage | No flashover or insulation | on breakdown. | 300V AC/1 minute | | | | |
| 3. Contact Resistance | 40m ohms max. | | 100mA | | | | |
| 4. Vibration | No electrical discontinu | ity of 1μ s or more | Frequency: 10 to 55 Hz, single amplitude of 0.75 mm, 2 hours in each of the 3 directions. | | | | |
| 5. Humidity (Steady state) | Contact resistance: 50m | ohms max. | 96 hours at temperature of 40°C and humidity of 90% to 95% | | | | |
| | Insulation resistance: 100 | Om ohms min. | 96 hours at temperature of 40 C and humidity of 90% to 95% | | | | |
| 6. Temperature Cycle | Contact resistance: 50m | ohms max: | (-55℃: 30 minutes 15 to 35℃: 2 to 3 minutes | | | | |
| 0. Temperature Cycle | Insulation resistance: 100 | Om ohms min. | 85°C: 30 minutes 15 to 35°C: 2 to 3minutes)5 cycles | | | | |
| 7. Durability (Mating/un-mating) | Contact resistance: 50m | ohms max. | 100 cycles | | | | |
| 8. Resistance to Soldering | No deformation of comp | onents affecting performance. | Reflow: At the recommended temperature profile | | | | |
| heat | no delormation of components affecting performance. | | Manual soldering: 360°C for 5 seconds | | | | |

Product Specifications

Note 1: Includes temperature rise caused by current flow.

Note 2: The term "storage" refers to product stored for long period of time prior to mounting and use. Operating Temperature Range and Humidity range covers non conducting condition of installed connectors in storage, shipment or during transportation.

Note 3. Information contained in this catalog represents general requirements for this Series. Contact us for the drawings and specifications for a specific part number shown.

The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-Roll xod stands been discontinued from the state of the products status on the Hirose website Roll's search at www.hirose-connectors.com, or contact your Hirose sales representative.

■Material

| Part | Material | Fi | nish | Remarks |
|--------------------|-----------------|--------------|-------------|---------|
| Insulation | PPS | Light brown | | UL94V-0 |
| Header Contact | Phosphor bronze | Contact area | Gold plated | |
| Receptacle Contact | | Lead area | Tin plated | |

Note 1 : The black dots on the insulater will not affect performance.

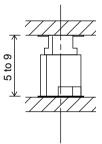
Note 2 : FX6(A)-*P-0.8SV(*) is gold plated.

Ordering Information

| FX6 (A) - * P | - 0.8 SV 1 (91) | | | | | |
|--|--|--|--|--|--|--|
| | 5 6 7 8 | | | | | |
| Series Name: FX6 | Contact type SV: Board vertical type | | | | | |
| Blank: With boss | Product Height Variable Blank : Standard, 1: +1mm | | | | | |
| A : Without boss | 2 : +2mm | | | | | |
| ③ Number of Contacts : 20,40,50,60,80,100 | 8 Packaging Style | | | | | |
| Connector Type | (71) : Stick packaging (No pick & place tape) | | | | | |
| P: Header | (91) : Stick packaging (Pick & place tape) | | | | | |
| S: Receptacle | (92) : Embossed tape packaging (No pick & place tape) | | | | | |
| Contact Pitch: 0.8mm | (93) : Embossed tape packaging (Pick & place Stick tape) | | | | | |

Stacking Height Variation

| Unit: n | | | | | | | |
|------------------|-----------------|------------------|--|--|--|--|--|
| | FX6(A)-*S-0.8SV | FX6(A)-*S-0.8SV2 | | | | | |
| FX6(A)-*P-0.8SV | 5 | 7 | | | | | |
| FX6(A)-*P-0.8SV1 | 6 | 8 | | | | | |
| FX6(A)-*P-0.8SV2 | 7 | 9 | | | | | |

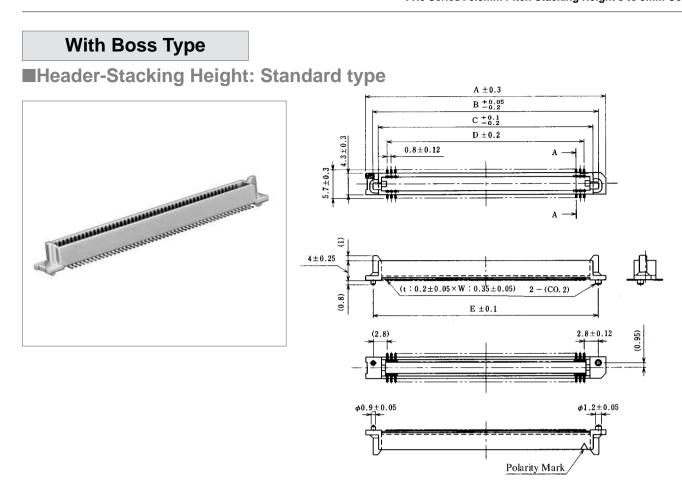


(* indicates 20, 40, 50, 60, 80, and 100 contacts.)

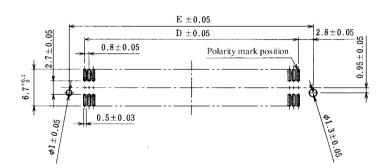
■Packaging Type

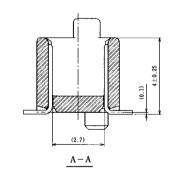
| Packaging Type | Number of Contacts | 20 contacts | 40 contacts | 50 contacts | 60contacts | 80 contacts | 100 contacts | | | |
|-------------------------|-------------------------|--|---|-------------|------------|-------------|--------------|--|--|--|
| Stick Packaging | Packaged Product Pieces | 33 pieces | 22 pieces | 19 pieces | 16 pieces | 13 pieces | 11 pieces | | | |
| Slick Fackaging | Sales Unit | Order by doubling t | Order by doubling the number of pieces contained in the product. (Example) In case of 20 contacts, 33 piece | | | | | | | |
| Embossed Tape Packaging | Tape Width | 24mm | 44mm | 44mm | 44mm | 56mm | \backslash | | | |
| | Product Pitch | | | | | | | | | |
| | Emboss Reel Diameter | FX6(A)-*S-0.8SV ···································· | | | | | | | | |
| | Packaged Product Pieces | | 1000 piec | es packaged | per reel | |]/ | | | |
| | Sales Unit | Per reel | | | | | | | | |

The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose #skeits RoHS sauch status of the first status of the Hirose #skeits RoHS sauch status of the Hirose #skeits RoHS sau



● PCB mounting pattern





| | | | | | | | | 01110.11111 |
|--------------------|---------------|--------------------|------|------|------|------|------|-------------|
| Part Number | CL No. | Number of Contacts | А | В | С | D | E | RoHS |
| FX6- 20P-0.8SV(71) | 576-0001-3-71 | 20 | 15.8 | 12.9 | 10.7 | 7.2 | 12.8 | |
| FX6- 40P-0.8SV(71) | 576-0003-9-71 | 40 | 23.8 | 20.9 | 18.7 | 15.2 | 20.8 | |
| FX6- 50P-0.8SV(71) | 576-0004-1-71 | 50 | 27.8 | 24.9 | 22.7 | 19.2 | 24.8 | YES |
| FX6- 60P-0.8SV(71) | 576-0005-4-71 | 60 | 31.8 | 28.9 | 26.7 | 23.2 | 28.8 | |
| FX6- 80P-0.8SV(71) | 576-0007-0-71 | 80 | 39.8 | 36.9 | 34.7 | 31.2 | 36.8 | |
| FX6-100P-0.8SV(71) | 576-0008-2-71 | 100 | 47.8 | 44.9 | 42.7 | 39.2 | 44.8 | |

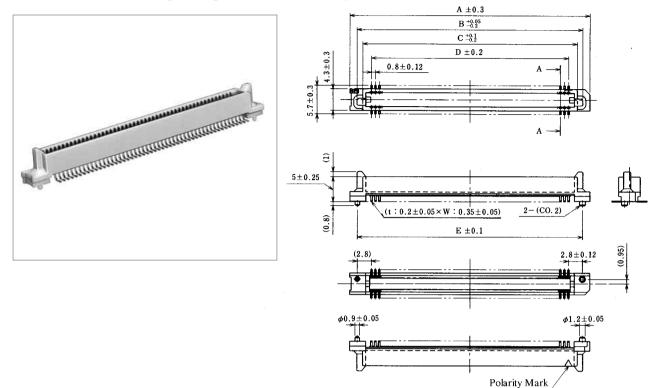
Note:Determine a quantity of the stick package product for delivery, multiplying the insertion pieces per contact number by an integer. Please make sure that a quantity of the stick package product for delivery is determined per reel (1000 pieces). (Refer to the delivery form item on page A144 for details.)



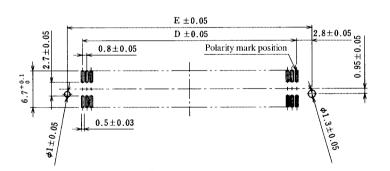
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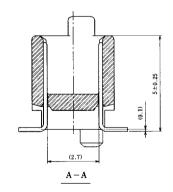
With Boss Type

■Header-Stacking Height: Standard type



● PCB mounting pattern





| | | | | | | | | Unit: mm |
|---------------------|---------------|--------------------|------|------|------|------|------|----------|
| Part Number | CL No. | Number of Contacts | А | В | С | D | E | RoHS |
| FX6- 20P-0.8SV1(71) | 576-0021-0-71 | 20 | 15.8 | 12.9 | 10.7 | 7.2 | 12.8 | |
| FX6- 40P-0.8SV1(71) | 576-0023-6-71 | 40 | 23.8 | 20.9 | 18.7 | 15.2 | 20.8 | |
| FX6- 50P-0.8SV1(71) | 576-0024-9-71 | 50 | 27.8 | 24.9 | 22.7 | 19.2 | 24.8 | YES |
| FX6- 60P-0.8SV1(71) | 576-0025-1-71 | 60 | 31.8 | 28.9 | 26.7 | 23.2 | 28.8 | 123 |
| FX6- 80P-0.8SV1(71) | 576-0027-7-71 | 80 | 39.8 | 36.9 | 34.7 | 31.2 | 36.8 | |
| FX6-100P-0.8SV1(71) | 576-0028-0-71 | 100 | 47.8 | 44.9 | 42.7 | 39.2 | 44.8 | |

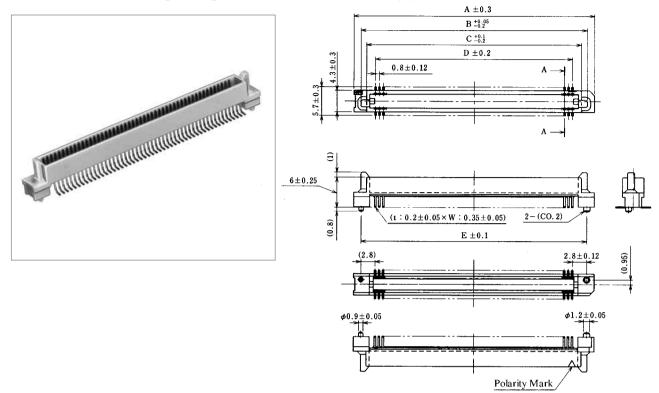
Note:Determine a quantity of the stick package product for delivery, multiplying the insertion pieces per contact number by an integer. Make sure that a quantity of the stick package product for delivery is determined per reel (1000 pieces). (Refer to the delivery form item on page A144 for details.)



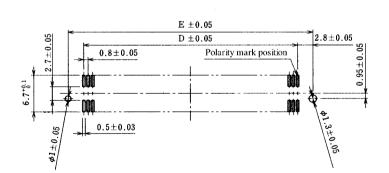
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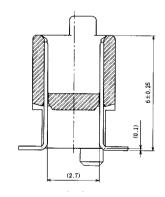
With Boss Type

■Header-Stacking Height: Standard+2mm type



● PCB mounting pattern



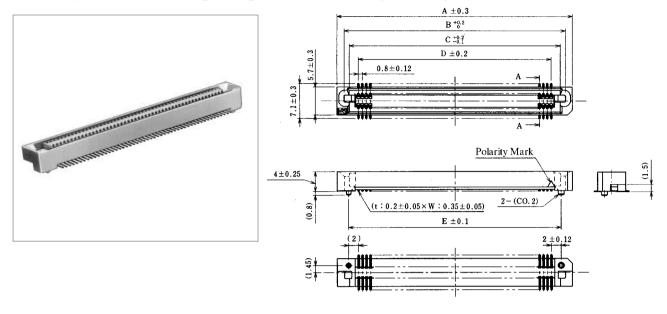


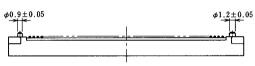
| | | | | | | | | Unit: mm |
|---------------------|---------------|--------------------|------|------|------|------|------|----------|
| Part Number | CL No. | Number of Contacts | А | В | С | D | E | RoHS |
| FX6- 20P-0.8SV2(71) | 576-0041-8-71 | 20 | 15.8 | 12.9 | 10.7 | 7.2 | 12.8 | |
| FX6- 40P-0.8SV2(71) | 576-0043-3-71 | 40 | 23.8 | 20.9 | 18.7 | 15.2 | 20.8 | |
| FX6- 50P-0.8SV2(71) | 576-0044-6-71 | 50 | 27.8 | 24.9 | 22.7 | 19.2 | 24.8 | YES |
| FX6- 60P-0.8SV2(71) | 576-0045-9-71 | 60 | 31.8 | 28.9 | 26.7 | 23.2 | 28.8 | |
| FX6- 80P-0.8SV2(71) | 576-0047-4-71 | 80 | 39.8 | 36.9 | 34.7 | 31.2 | 36.8 | |
| FX6-100P-0.8SV2(71) | 576-0048-7-71 | 100 | 47.8 | 44.9 | 42.7 | 39.2 | 44.8 | |

Note:Determine a quantity of the stick package product for delivery, multiplying the insertion pieces per contact number by an integer. Make sure that a quantity of the stick package product for delivery is determined per reel (1000 pieces). (Refer to the delivery form item on page A144 for details.) The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-Rolle xed strikes bestimm intechnistic through to the state of the state of

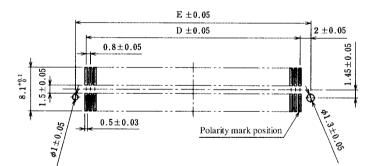
With Boss Type

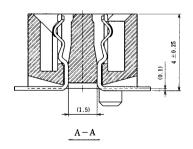
■Receptacle-Stacking Height: Standard type





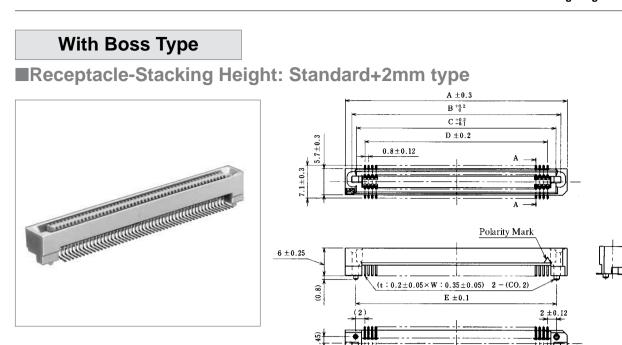
● PCB mounting pattern





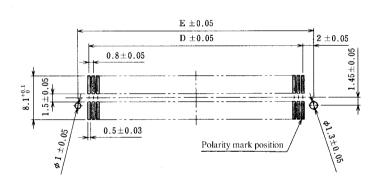
| | | | | | | | | Unit: mm |
|--------------------|---------------|--------------------|------|-------|------|------|------|----------|
| Part Number | CL No. | Number of Contacts | А | В | С | D | E | RoHS |
| FX6- 20S-0.8SV(71) | 576-0101-8-71 | 20 | 15.8 | 12.95 | 10.9 | 7.2 | 11.2 | |
| FX6- 40S-0.8SV(71) | 576-0103-3-71 | 40 | 23.8 | 20.95 | 18.9 | 15.2 | 19.2 | |
| FX6- 50S-0.8SV(71) | 576-0104-6-71 | 50 | 27.8 | 24.95 | 22.9 | 19.2 | 23.2 | YES |
| FX6- 60S-0.8SV(71) | 576-0105-9-71 | 60 | 31.8 | 28.95 | 26.9 | 23.2 | 27.2 | |
| FX6- 80S-0.8SV(71) | 576-0107-4-71 | 80 | 39.8 | 36.95 | 34.9 | 31.2 | 35.2 | |
| FX6-100S-0.8SV(71) | 576-0108-7-71 | 100 | 47.8 | 44.95 | 42.9 | 39.2 | 43.2 | |

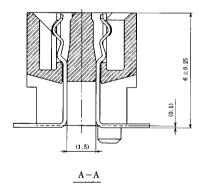
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● PCB mounting pattern





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| Part Number | CL No. | Number of Contacts | А | В | С | D | E | RoHS |
|---------------------|---------------|--------------------|------|-------|------|------|------|------|
| FX6- 20S-0.8SV2(71) | 576-0121-5-71 | 20 | 15.8 | 12.95 | 10.9 | 7.2 | 11.2 | |
| FX6- 40S-0.8SV2(71) | 576-0123-0-71 | 40 | 23.8 | 20.95 | 18.9 | 15.2 | 19.2 | |
| FX6- 50S-0.8SV2(71) | 576-0124-3-71 | 50 | 27.8 | 24.95 | 22.9 | 19.2 | 23.2 | YES |
| FX6- 60S-0.8SV2(71) | 576-0125-6-71 | 60 | 31.8 | 28.95 | 26.9 | 23.2 | 27.2 | 1123 |
| FX6- 80S-0.8SV2(71) | 576-0127-1-71 | 80 | 39.8 | 36.95 | 34.9 | 31.2 | 35.2 | |
| FX6-100S-0.8SV2(71) | 576-0128-4-71 | 100 | 47.8 | 44.95 | 42.9 | 39.2 | 43.2 | |

Note:Determine a quantity of the stick package product for delivery, multiplying the insertion pieces per contact number by an integer. Make sure that a quantity of the stick package product for delivery is determined per reel (1000 pieces). (Refer to the delivery form item on page A144 for details.)

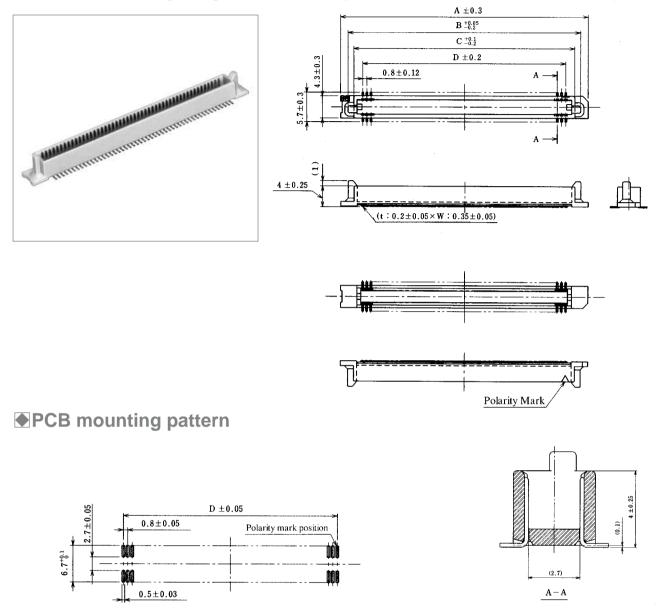
HS A149

Unit: mm

The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-Rolle xed strikes bestimminited in still be discrimination of the second strike website Rolls search at www.hirose-connectors.com, or contact your Hirose sales representative.

Without Boss Type

■Header-Stacking Height: Standard type



Unit: mm

| Part Number | CL No. | Number of Contacts | А | В | С | D | RoHS |
|---------------------|---------------|--------------------|------|------|------|------|------|
| FX6A- 20P-0.8SV(71) | 576-0201-2-71 | 20 | 15.8 | 12.9 | 10.7 | 7.2 | |
| FX6A- 40P-0.8SV(71) | 576-0203-8-71 | 40 | 23.8 | 20.9 | 18.7 | 15.2 | |
| FX6A- 50P-0.8SV(71) | 576-0204-0-71 | 50 | 27.8 | 24.9 | 22.7 | 19.2 | YES |
| FX6A- 60P-0.8SV(71) | 576-0205-3-71 | 60 | 31.8 | 28.9 | 26.7 | 23.2 | |
| FX6A- 80P-0.8SV(71) | 576-0207-9-71 | 80 | 39.8 | 36.9 | 34.7 | 31.2 | |
| FX6A-100P-0.8SV(71) | 576-0208-1-71 | 100 | 47.8 | 44.9 | 42.7 | 39.2 | |

Note:Determine a quantity of the stick package product for delivery, multiplying the insertion pieces per contact number by an integer. Please make sure that a quantity of the stick package product for delivery is determined per reel (1000 pieces). (Refer to the delivery form item on page A144 for details.)

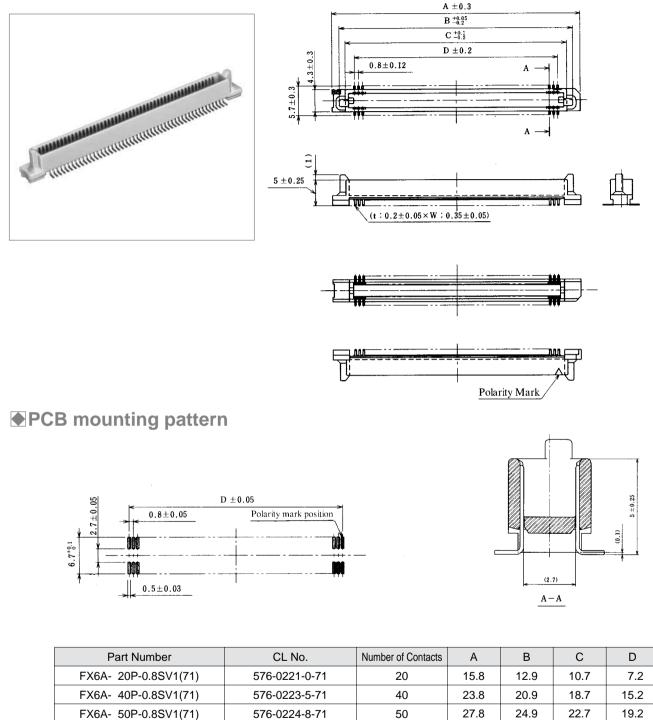
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Without Boss Type

FX6A- 60P-0.8SV1(71)

FX6A- 80P-0.8SV1(71)

■Header-Stacking Height: Standard+1 type



FX6A-100P-0.8SV1(71) Note:Determine a quantity of the stick package product for delivery, multiplying the insertion pieces per contact number by an integer. Please make sure that a quantity of the stick package product for delivery is determined per reel (1000 pieces). (Refer to the delivery form item on page A144 for details.)

60

80

100

576-0225-0-71

576-0227-6-71

576-0228-9-71

Unit: mm

RoHS

YES

23.2

31.2

39.2

28.9

36.9

44.9

31.8

39.8

47.8

26.7

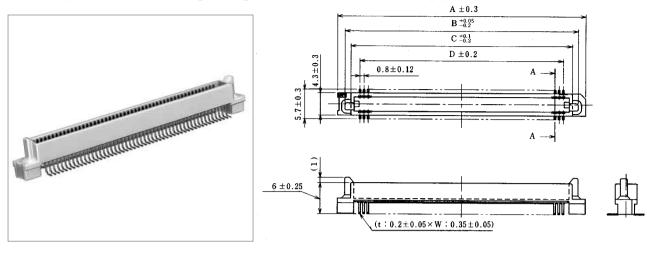
34.7

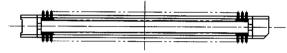
42.7

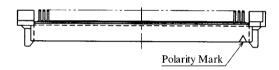
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Without Boss Type

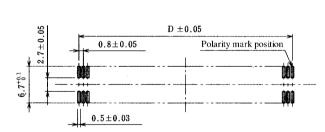
■Receptacle-Stacking Height: Standard+2mm type

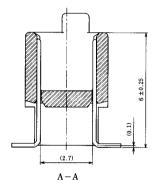






● PCB mounting pattern



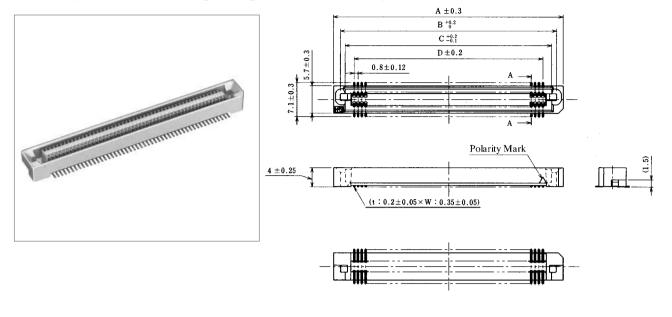


| | | | | | | | Unit: mm |
|----------------------|---------------|--------------------|------|------|------|------|----------|
| Part Number | CL No. | Number of Contacts | А | В | С | D | RoHS |
| FX6A- 20P-0.8SV2(71) | 576-0241-7-71 | 20 | 15.8 | 12.9 | 10.7 | 7.2 | |
| FX6A- 40P-0.8SV2(71) | 576-0243-2-71 | 40 | 23.8 | 20.9 | 18.7 | 15.2 | |
| FX6A- 50P-0.8SV2(71) | 576-0244-5-71 | 50 | 27.8 | 24.9 | 22.7 | 19.2 | YES |
| FX6A- 60P-0.8SV2(71) | 576-0245-8-71 | 60 | 31.8 | 28.9 | 26.7 | 23.2 | |
| FX6A- 80P-0.8SV2(71) | 576-0247-3-71 | 80 | 39.8 | 36.9 | 34.7 | 31.2 | |
| FX6A-100P-0.8SV2(71) | 576-0248-6-71 | 100 | 47.8 | 44.9 | 42.7 | 39.2 | |

Note:Determine a quantity of the stick package product for delivery, multiplying the insertion pieces per contact number by an integer. Please make sure that a quantity of the stick package product for delivery is determined per reel (1000 pieces). (Refer to the delivery form item on page A144 for details.) The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose **#ske**ts **BoHS** search **at way binse-content of the GoHT at the Content of the Content of the Products** status on the Hirose **#ske**ts **BoHS** search **at way binse-content of the GoHT at the Content of the Products** status on the Hirose **#ske**ts **BoHS** search **at way binse-content of the GoHT at the Content of the Content of the Content of the Products** status on the Hirose **#ske**ts **BoHS** search **at way binse-content of the Content of the Conte**

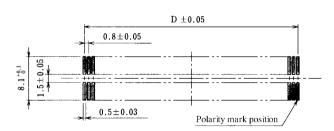
Without Boss Type

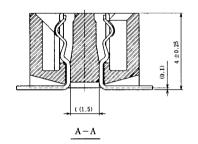
■Receptacle-Stacking Height: Standard type





●PCB mounting pattern





| Part Number | CL No. | Number of Contacts | А | В | С | D | RoHS |
|---------------------|---------------|--------------------|------|-------|------|------|------|
| FX6A- 20S-0.8SV(71) | 576-0301-7-71 | 20 | 15.8 | 12.95 | 10.9 | 7.2 | |
| FX6A- 40S-0.8SV(71) | 576-0303-2-71 | 40 | 23.8 | 20.95 | 18.9 | 15.2 | |
| FX6A- 50S-0.8SV(71) | 576-0304-5-71 | 50 | 27.8 | 24.95 | 22.9 | 19.2 | YES |
| FX6A- 60S-0.8SV(71) | 576-0305-8-71 | 60 | 31.8 | 28.95 | 26.9 | 23.2 | TL3 |
| FX6A- 80S-0.8SV(71) | 576-0307-3-71 | 80 | 39.8 | 36.95 | 34.9 | 31.2 | |
| FX6A-100S-0.8SV(71) | 576-0308-6-71 | 100 | 47.8 | 44.95 | 42.9 | 39.2 | |

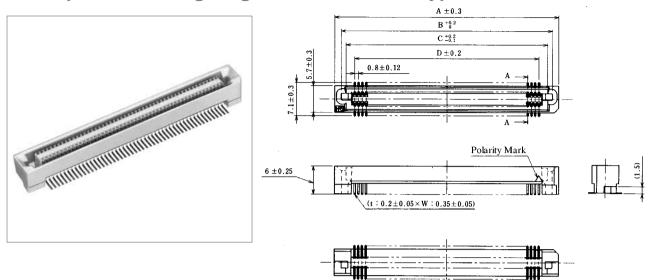
Note:Determine a quantity of the stick package product for delivery, multiplying the insertion pieces per contact number by an integer. Please make sure that a quantity of the stick package product for delivery is determined per reel (1000 pieces). (Refer to the delivery form item on page A144 for details.)

Unit: mm

The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-Rolle xed strikes bestimminited in still be discrimination of the second strike website Rolls search at www.hirose-connectors.com, or contact your Hirose sales representative.

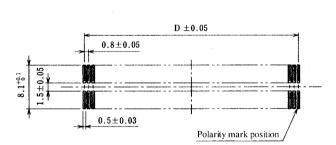
Without Boss Type

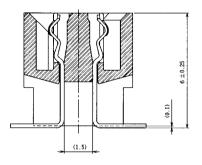
■Receptacle-Stacking Height: Standard+2mm type





● PCB mounting pattern





| | | | | | | | Unit: mm |
|----------------------|---------------|--------------------|------|-------|------|------|----------|
| Part Number | CL No. | Number of Contacts | А | В | С | D | RoHS |
| FX6A- 20S-0.8SV2(71) | 576-0321-4-71 | 20 | 15.8 | 12.95 | 10.9 | 7.2 | |
| FX6A- 40S-0.8SV2(71) | 576-0323-0-71 | 40 | 23.8 | 20.95 | 18.9 | 15.2 | |
| FX6A- 50S-0.8SV2(71) | 576-0324-2-71 | 50 | 27.8 | 24.95 | 22.9 | 19.2 | YES |
| FX6A- 60S-0.8SV2(71) | 576-0325-5-71 | 60 | 31.8 | 28.95 | 26.9 | 23.2 | 115 |
| FX6A- 80S-0.8SV2(71) | 576-0327-0-71 | 80 | 39.8 | 36.95 | 34.9 | 31.2 | |
| FX6A-100S-0.8SV2(71) | 576-0328-3-71 | 100 | 47.8 | 44.95 | 42.9 | 39.2 | |

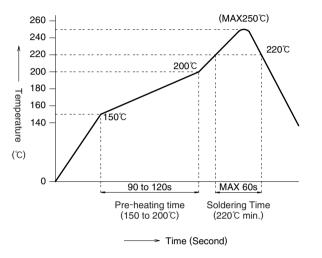
Note:Determine a quantity of the stick package product for delivery, multiplying the insertion pieces per contact number by an integer. Please make sure that a quantity of the stick package product for delivery is determined per reel (1000 pieces). (Refer to the delivery form item on page A144 for details.) The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose #\$615@H&sea6h&dwww.birtchcgractshogra

Precautions

1. Tolerance Clearance on Mating Side

The effective contact length of the product is set to 1.7mm. Please use the products as to set the clearance within 1.0mm between the header and the receptacle in the mating process.





HRS test conditions

| Test boardGlass epoxy | 110mm×55mm×1.6mm thick |
|-----------------------|------------------------|
| Solder method | :Reflow |
| Solder composition | :Paste, |
| | 96.5%Sn/3%Ag/0.5%Cu |
| Metal mask | : 0.15mm thick |
| Reflow cycles | : 2 cycles |
| | |

The temperature profile is based on the above conditions.

In individual applications the actual temperature may vary, depending on solder paste type,

volume/thickness and board size/thickness. Consult your solder paste and equipment manufacturer for specific recommendations.

3. Board to Board Size

The board to board size of the male/female connector shown in the application pattern doesn't include the solder paste thickness. Thus, after the connector is mounted on the board, consider that the board to board size will be widened in proportion to the solder paste thickness.