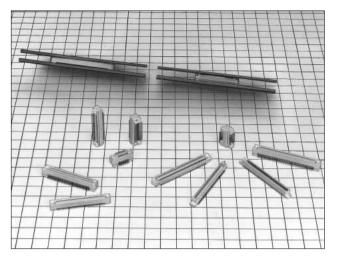
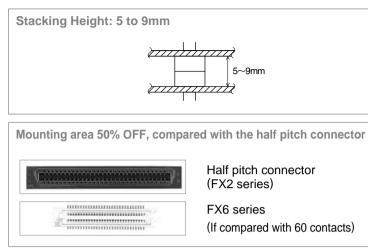
The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at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

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■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.

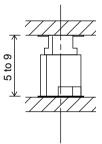
Note 2 : FX6(A)-*P-0.8SV(*) is gold plated.

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					

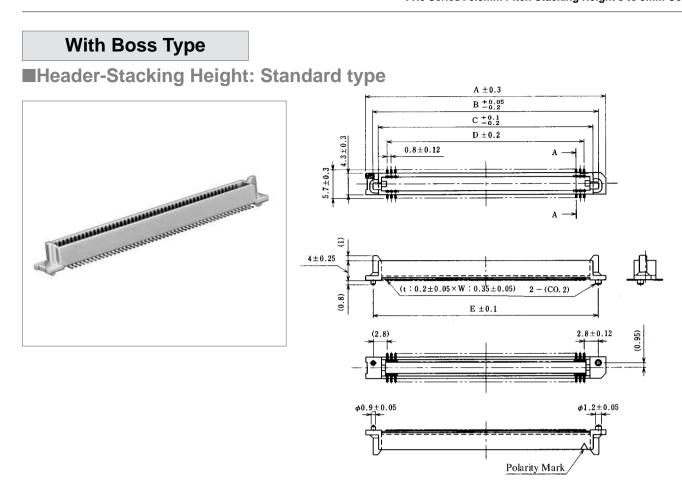


(* indicates 20, 40, 50, 60, 80, and 100 contacts.)

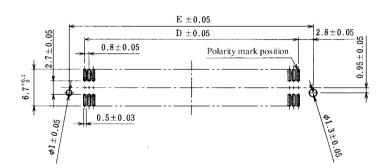
■Packaging Type

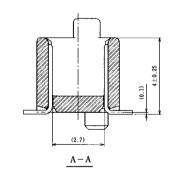
Packaging Type	Number of Contacts	20 contacts	40 contacts	50 contacts	60contacts	80 contacts	100 contacts			
Stick Packaging	Packaged Product Pieces	33 pieces	22 pieces	19 pieces	16 pieces	13 pieces	11 pieces			
Slick Fackaging	Sales Unit	Order by doubling t	Order by doubling the number of pieces contained 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								

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● 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	

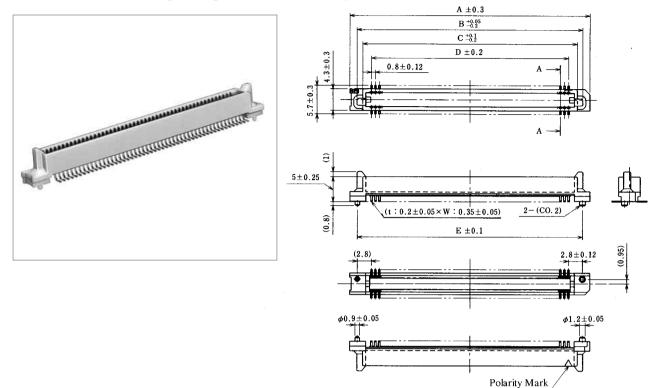
Note:Determine a quantity of the stick package product for delivery, multiplying the insertion pieces per contact number by an integer. Please make sure that a quantity of the stick package product for delivery is determined per reel (1000 pieces). (Refer to the delivery form item on page A144 for details.)



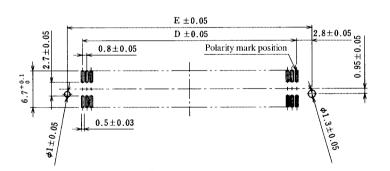
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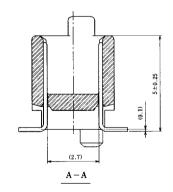
With Boss Type

■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	

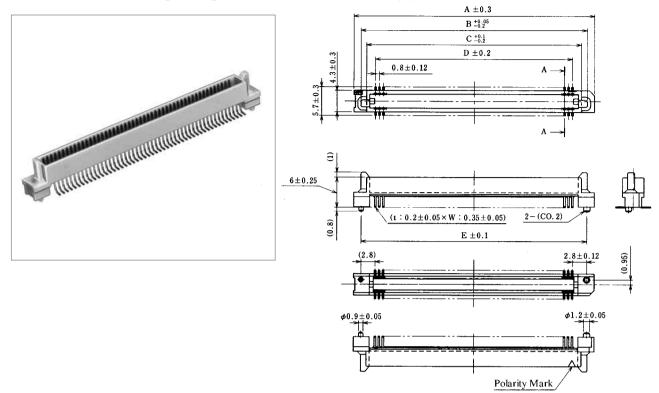
Note:Determine a quantity of the stick package product for delivery, multiplying the insertion pieces per contact number by an integer. Make sure that a quantity of the stick package product for delivery is determined per reel (1000 pieces). (Refer to the delivery form item on page A144 for details.)



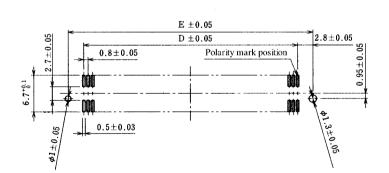
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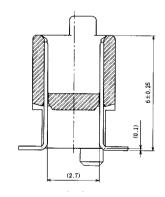
With Boss Type

■Header-Stacking Height: Standard+2mm type



● PCB mounting pattern



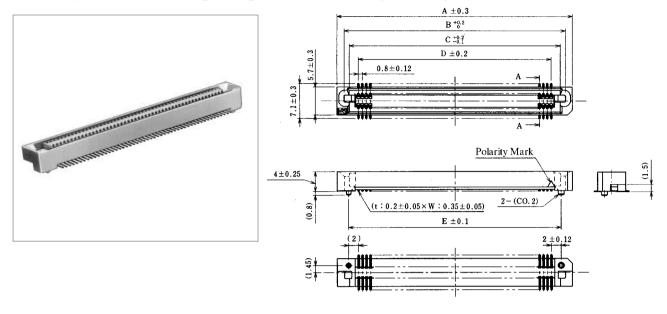


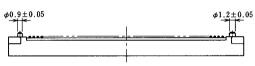
								Unit: mm
Part Number	CL No.	Number of Contacts	А	В	С	D	E	RoHS
FX6- 20P-0.8SV2(71)	576-0041-8-71	20	15.8	12.9	10.7	7.2	12.8	
FX6- 40P-0.8SV2(71)	576-0043-3-71	40	23.8	20.9	18.7	15.2	20.8	
FX6- 50P-0.8SV2(71)	576-0044-6-71	50	27.8	24.9	22.7	19.2	24.8	YES
FX6- 60P-0.8SV2(71)	576-0045-9-71	60	31.8	28.9	26.7	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

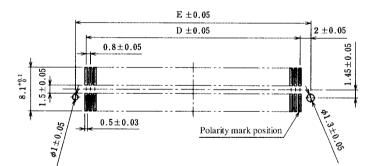
With Boss Type

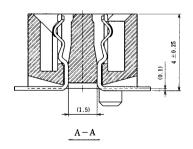
■Receptacle-Stacking Height: Standard type





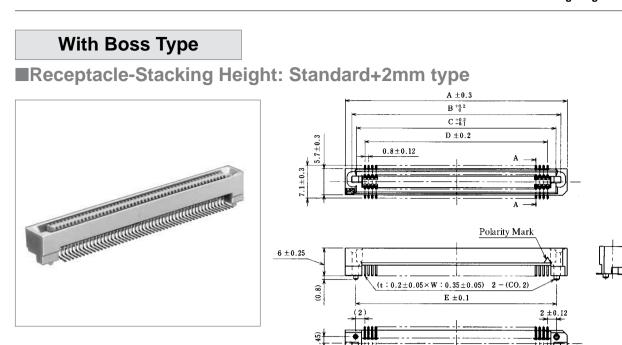
● PCB mounting pattern





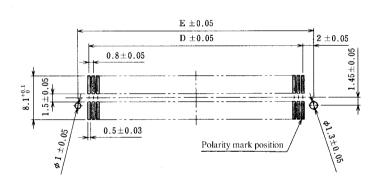
								Unit: mm
Part Number	CL No.	Number of Contacts	А	В	С	D	E	RoHS
FX6- 20S-0.8SV(71)	576-0101-8-71	20	15.8	12.95	10.9	7.2	11.2	
FX6- 40S-0.8SV(71)	576-0103-3-71	40	23.8	20.95	18.9	15.2	19.2	
FX6- 50S-0.8SV(71)	576-0104-6-71	50	27.8	24.95	22.9	19.2	23.2	YES
FX6- 60S-0.8SV(71)	576-0105-9-71	60	31.8	28.95	26.9	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	

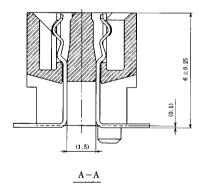
Note:Determine a quantity of the stick package product for delivery, multiplying the insertion pieces per contact number by an integer. Make sure that a quantity of the stick package product for delivery is determined per reel (1000 pieces). (Refer to the delivery form item on page A144 for details.) 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-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose **#ske**lts earth status of the formation.





● 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.)

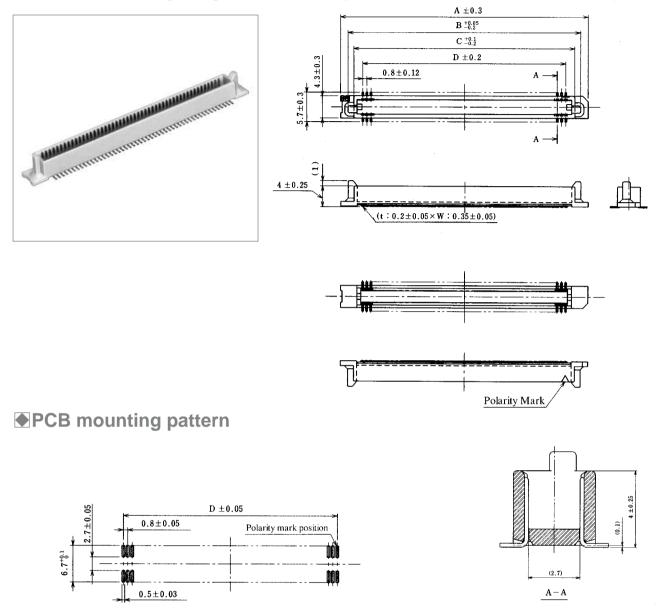
HS A149

Unit: mm

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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.)

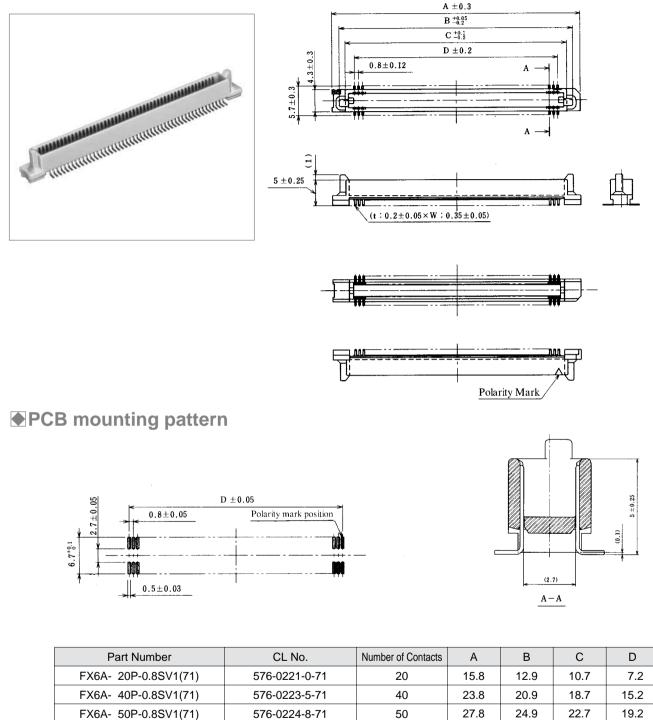
The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose #shoits Ball's search show with press constraining the grant of the products status on the Hirose #shoits Ball's search show with press constraining the grant of the products status on the Hirose #shoits Ball's search show with press constraining the grant of the products status on the Hirose #shoits Ball's search show with press constraining the grant of the products status on the Hirose #shoits Ball's search show with press constrained status on the Hirose #shoits Ball's search show with press constraints show the products status on the Hirose #shoits Ball's search show with press constraints show the products status on the Hirose #shoits Ball's search show the press constraints show the products status on the Hirose #shoits Ball's search show the press constraints show the press of the products show the press of the

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

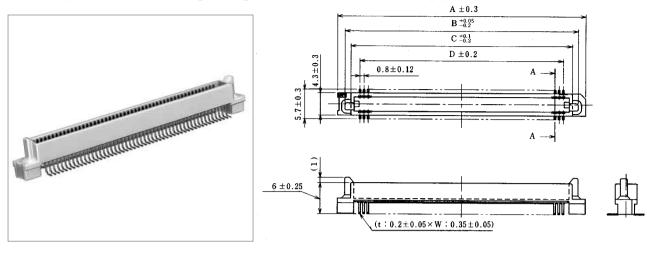
34.7

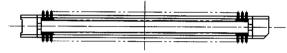
42.7

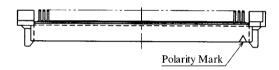
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Without Boss Type

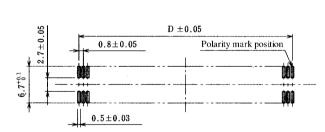
■Receptacle-Stacking Height: Standard+2mm type

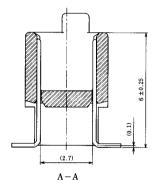






● PCB mounting pattern



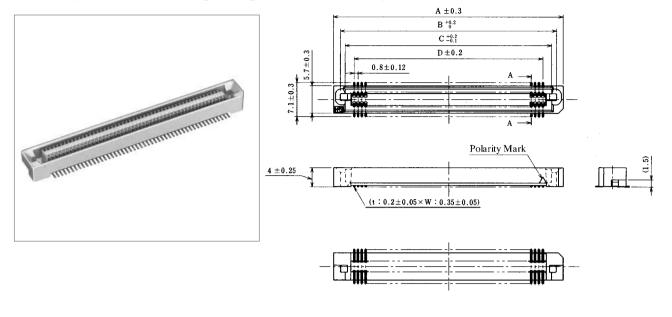


							Unit: mm
Part Number	CL No.	Number of Contacts	А	В	С	D	RoHS
FX6A- 20P-0.8SV2(71)	576-0241-7-71	20	15.8	12.9	10.7	7.2	
FX6A- 40P-0.8SV2(71)	576-0243-2-71	40	23.8	20.9	18.7	15.2	
FX6A- 50P-0.8SV2(71)	576-0244-5-71	50	27.8	24.9	22.7	19.2	YES
FX6A- 60P-0.8SV2(71)	576-0245-8-71	60	31.8	28.9	26.7	23.2	
FX6A- 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**

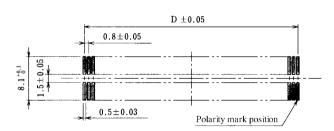
Without Boss Type

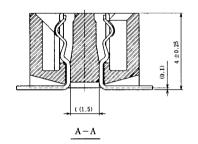
■Receptacle-Stacking Height: Standard type





● 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	

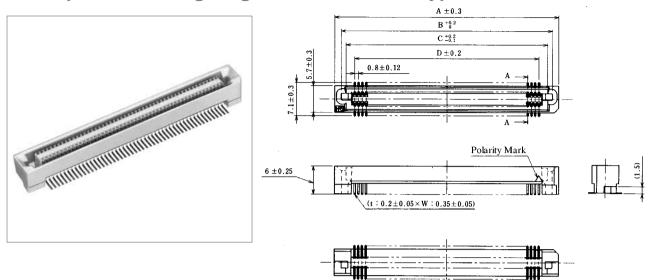
Note:Determine a quantity of the stick package product for delivery, multiplying the insertion pieces per contact number by an integer. Please make sure that a quantity of the stick package product for delivery is determined per reel (1000 pieces). (Refer to the delivery form item on page A144 for details.)

Unit: mm

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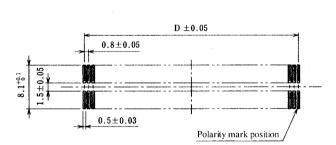
Without Boss Type

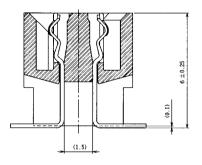
■Receptacle-Stacking Height: Standard+2mm type





● PCB mounting pattern





							Unit: mm
Part Number	CL No.	Number of Contacts	А	В	С	D	RoHS
FX6A- 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	

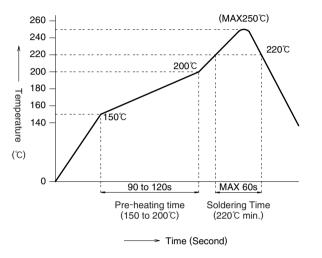
Note:Determine a quantity of the stick package product for delivery, multiplying the insertion pieces per contact number by an integer. Please make sure that a quantity of the stick package product for delivery is determined per reel (1000 pieces). (Refer to the delivery form item on page A144 for details.)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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Hirose Electric:

 FX6-100P-0.8SV
 FX6A-20P-0.8SV1
 FX6A-40S-0.8SV
 FX6A-40S-0.8SV2
 FX6A-50S-0.8SV
 FX6A-60P-0.8SV2

 FX6A-60P-0.8SV2
 FX6A-60S-0.8SV
 FX6A-80S-0.8SV
 FX6-50P-0.8SV2(89)
 FX6-50S-0.8SV2(89)