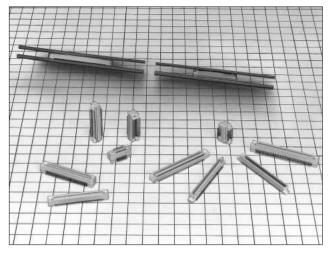
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0.8mm Pitch Stacking Height 5 to 9mm Connector

FX6 Series





- 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.

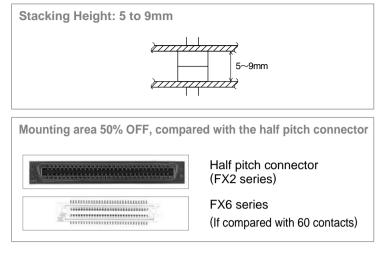
Datian	Current rating 0.5A	Operating Temperature Range -55℃ to	+85℃ Note 1.	Storage Temperature Range -10°C to +60°C Note 2.		
Rating	Voltage rating 100V AC	Operating Humidity Range 40%	to 80%	Storage Humidity Range 40% to 70%		
	_					
Item	Spe	ecification		Condition		
1. Insulation Resistance	100M ohms min		250V DC			
2. Withstanding voltage	No flashover or insulati	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 5	5 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: 10	0m ohms min.				
6. Temperature Cycle	Contact resistance: 50m	ohms max:	(-55℃: 30 mi	nutes 15 to 35°C: 2 to 3 minutes		
6. Temperature Cycle	Insulation resistance: 10	0m 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		enerits anceang performance.	Manual soldering: 360℃ for 5 seconds			

Product Specifications

Note 1: Includes temperature rise caused by current flow.

Note 2: The term "storage" refers to products 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.



4. Automatic Mounting

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.)

5. SMT Coplanarity

The lead coplanarity on the SMT soldered area is maintained with the high accuracy of less than 0.1mm.

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-Rolf grads to have bee discontinued provided in the discontinued provided pro

■Material

Part	Material	Fi	nish	Remarks	
Insulation	PPS	Light brown	ght 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)					
0 2 6 4	5 6 0 8					
Series Name: FX6	Contact type SV: Board vertical type					
2 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)					
5 Contact Pitch: 0.8mm	(93) : Embossed tape packaging (Pick & place Stick tape)					

Stacking Height Variation

		Unit: mm
	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

5 to 9

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

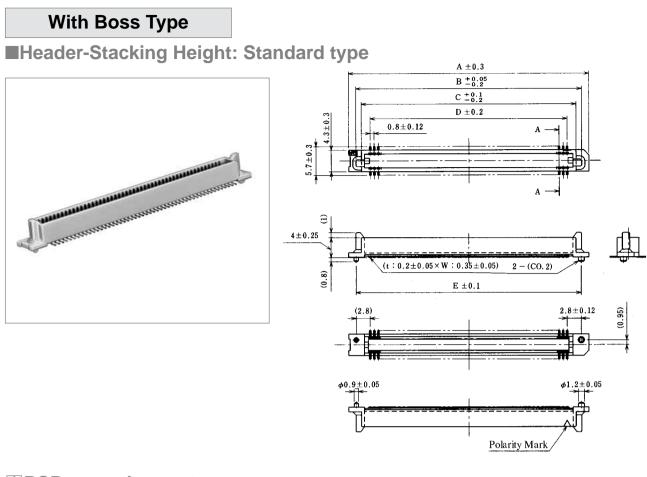
■Packaging Type

R

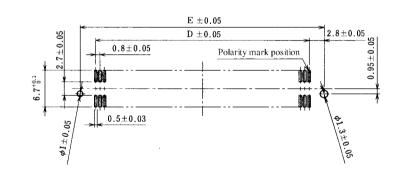
A144

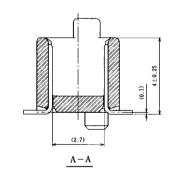
Packaging Type	Number of Contacts	20 contacts	40 contacts	50 contacts	60contacts	80 contacts	100 contacts		
Stick Packaging	Packaged Product Pieces	33 pieces	22 pieces	19 pieces	16 pieces	13 pieces	11 pieces		
Slick Fackaging	Sales Unit	Order by doubling the number of pieces contained in the product. (Example) In case of 20 contacts, 33 pieces, 66 piece							
Embossed Tape Packaging	Tape Width	24mm	44mm	44mm	44mm	56mm	Λ /		
	Product Pitch								
	Emboss Reel Diameter	FX6(A)-*S- FX6(A)-*P- FX6(A)-*P-							
	Packaged Product Pieces		1000 piec	es packaged p	per reel				
	Sales Unit	Per reel					\backslash		

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♦ PCB mounting pattern





								Unit: mm
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	1113
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	

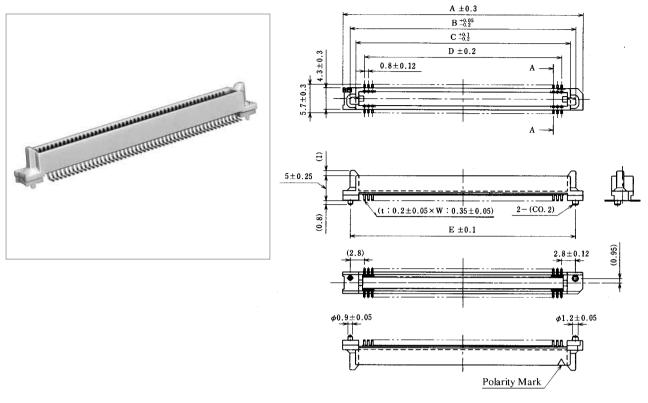
Note:Determine a quantity of the stick package product for delivery, multiplying the insertion pieces per contact number by an integer. Please make sure that a quantity of the stick package product for delivery is determined per reel (1000 pieces). (Refer to the delivery form item on page A144 for details.)



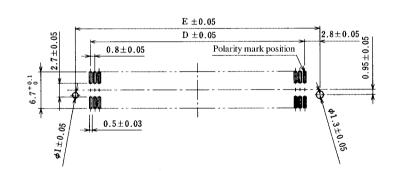
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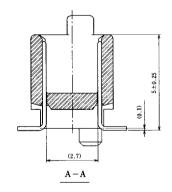
With Boss Type

■Header-Stacking Height: Standard type



●PCB mounting pattern





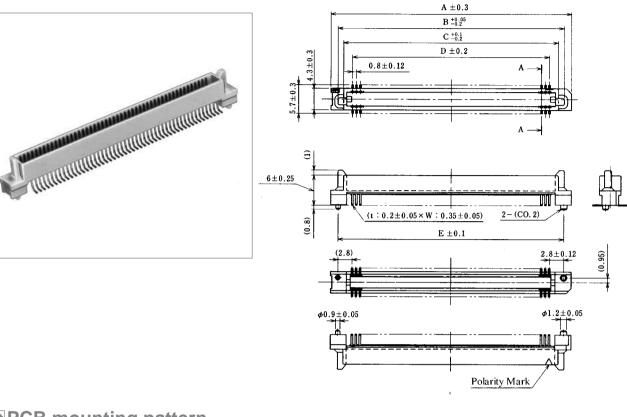
								Unit: mm
Part Number	CL No.	Number of Contacts	А	В	С	D	E	RoHS
FX6- 20P-0.8SV1(71)	576-0021-0-71	20	15.8	12.9	10.7	7.2	12.8	
FX6- 40P-0.8SV1(71)	576-0023-6-71	40	23.8	20.9	18.7	15.2	20.8	
FX6- 50P-0.8SV1(71)	576-0024-9-71	50	27.8	24.9	22.7	19.2	24.8	YES
FX6- 60P-0.8SV1(71)	576-0025-1-71	60	31.8	28.9	26.7	23.2	28.8	
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.)

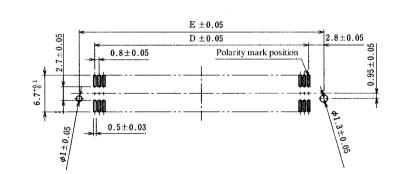
A146 **HS**

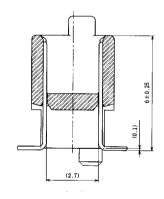
All non-RolS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose **Product** Series and Sharwar Pitch Static Stractoring Heighted to be the status of the Hirose track of the series and the status of the series and the series and the status of the series and the status of the series and the status of the series and the series

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	1123
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	

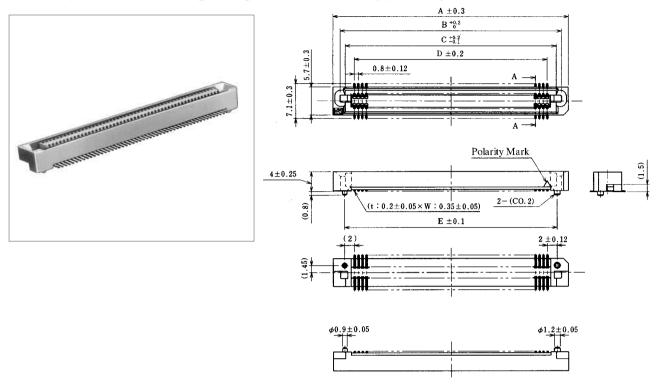
Note:Determine a quantity of the stick package product for delivery, multiplying the insertion pieces per contact number by an integer. Make sure that a quantity of the stick package product for delivery is determined per reel (1000 pieces). (Refer to the delivery form item on page A144 for details.)



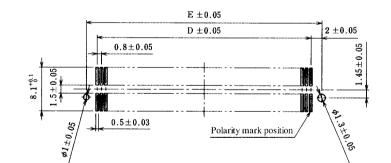
The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-Rolfs yades to have been discontinued provided in the discontinued provided provided provided in the discontinued provided provided

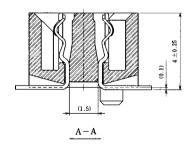
With Boss Type

■Receptacle-Stacking Height: Standard type



●PCB mounting pattern





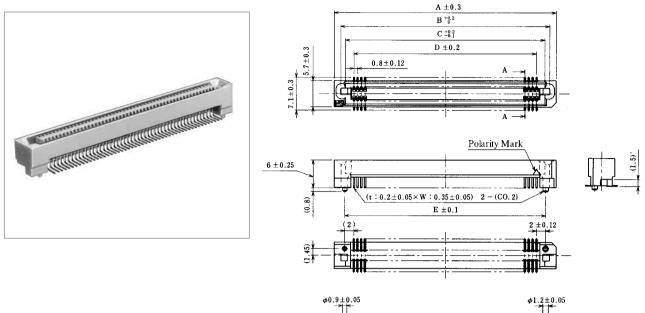
								Unit: mm
Part Number	CL No.	Number of Contacts	А	В	С	D	E	RoHS
FX6- 20S-0.8SV(71)	576-0101-8-71	20	15.8	12.95	10.9	7.2	11.2	
FX6- 40S-0.8SV(71)	576-0103-3-71	40	23.8	20.95	18.9	15.2	19.2	
FX6- 50S-0.8SV(71)	576-0104-6-71	50	27.8	24.95	22.9	19.2	23.2	YES
FX6- 60S-0.8SV(71)	576-0105-9-71	60	31.8	28.95	26.9	23.2	27.2	1123
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.)

A148 HS

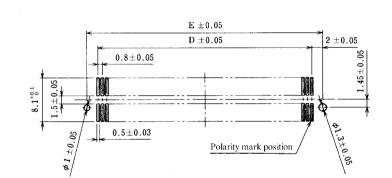
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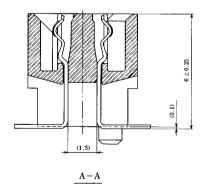
With Boss Type Receptacle-Stacking Height: Standard+2mm type



ושרב

♦ PCB mounting pattern





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	
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.)

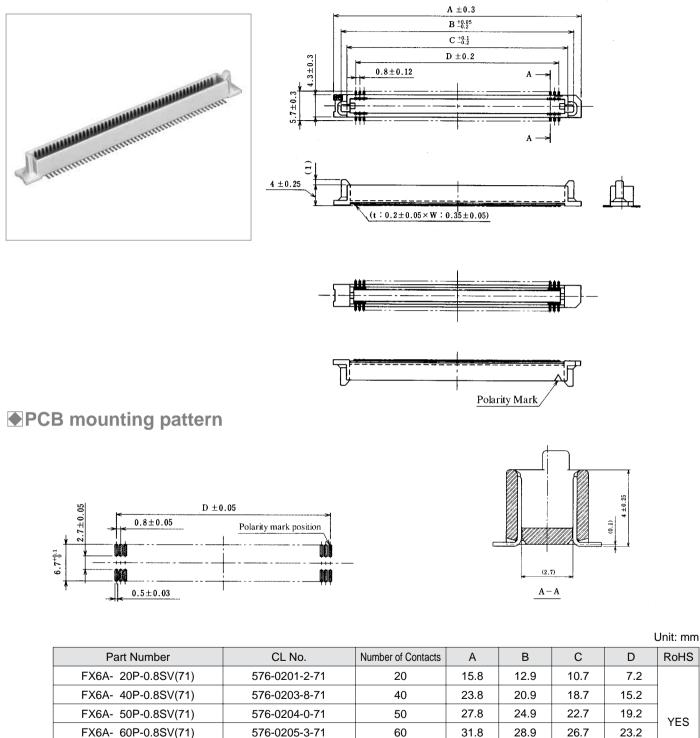


Unit: mm

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-Rolf: wades: have have been as in more the state of the second state of the s

Without Boss Type

Header-Stacking Height: Standard type



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.)

80

100

39.8

47.8

36.9

44.9

34.7

42.7

576-0207-9-71

576-0208-1-71

A150

FX6A- 80P-0.8SV(71)

FX6A-100P-0.8SV(71)

YES

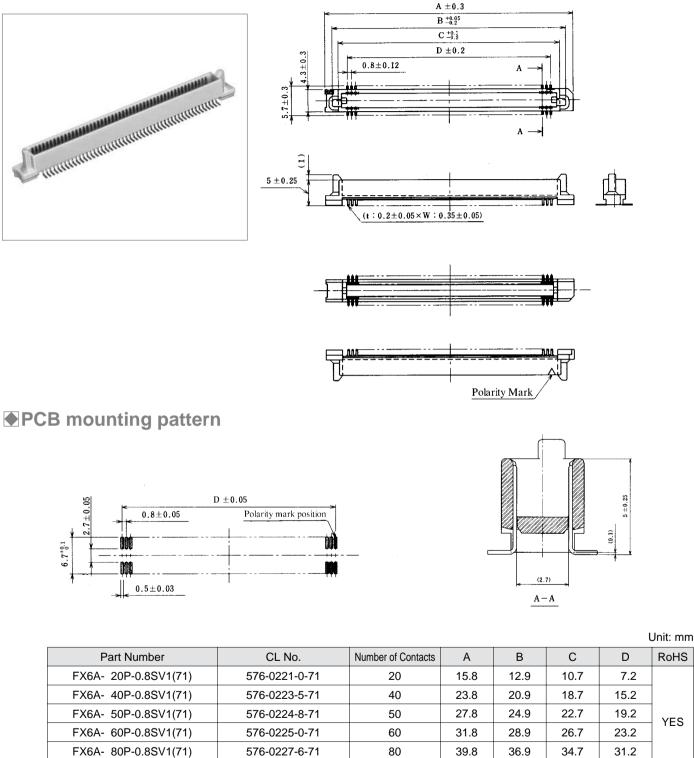
31.2

39.2

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Without Boss Type

Header-Stacking Height: Standard+1 type



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.)

100

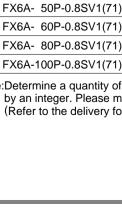
44.9

42.7

39.2

47.8

576-0228-9-71



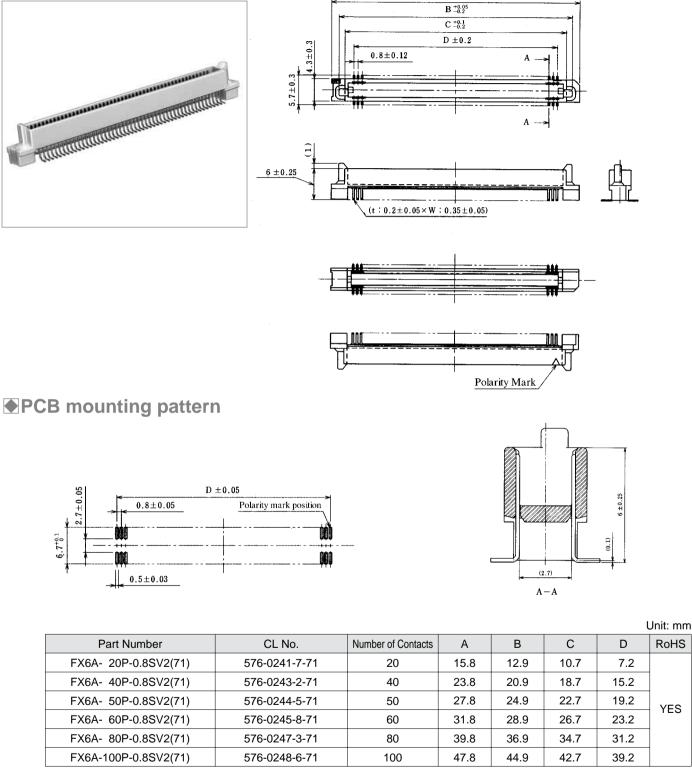
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 $A \pm 0.3$

Without Boss Type

■Receptacle-Stacking Height: Standard+2mm type



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.)

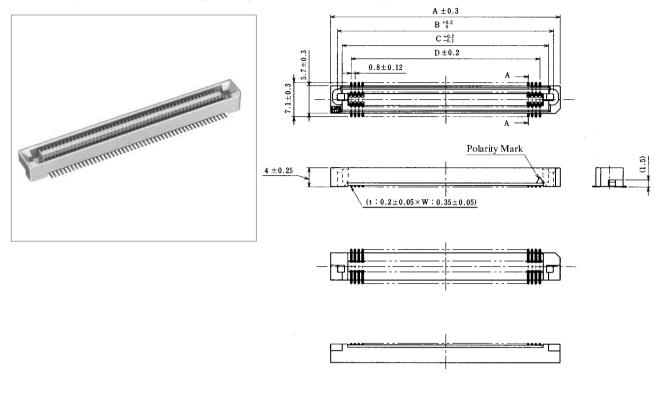
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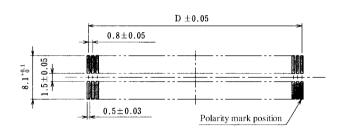
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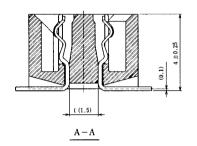
Without Boss Type

■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	1113
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.)

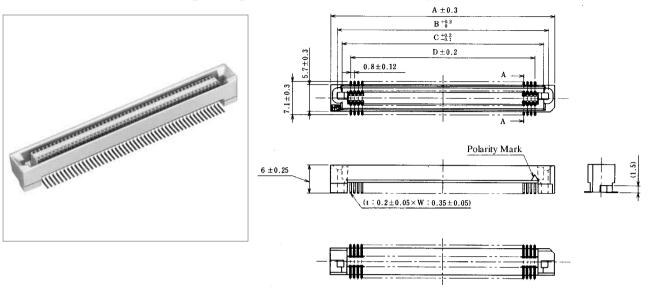


Unit: mm

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-Rolfs yades to have been discontinued provided in the discontinued provided provided provided in the discontinued provided provided

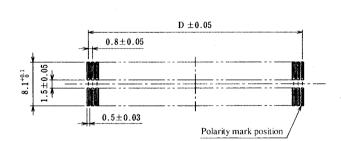
Without Boss Type

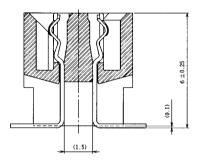
■Receptacle-Stacking Height: Standard+2mm type





●PCB mounting pattern





						I	Jnit: 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	
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.)

A154 HRS

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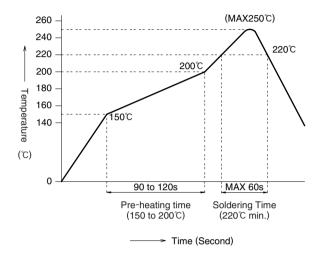
http://www.ljqw.top/ All non-RollS products have been discontinued on will be discontinued on Please check the products status on the linose **most Series Series**

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.

