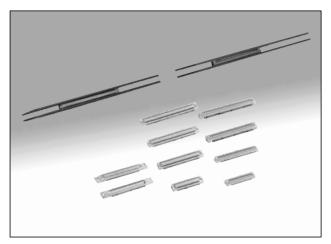


0.6mm Pitch Stacking Height 3mm to 16mm Connector

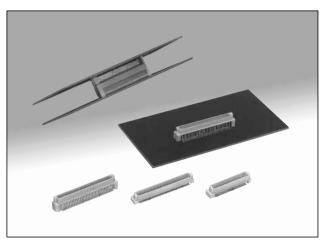
FX8, FX8C Series

FX8 Series



Note that FX8 series and FX8C series are not mated with each other.

FX8C Series



■Features

1. Stacking Height 3mm to 16mm available The board to board stacking height can correspond to 3mm~16mm.

2. SMT Coplanarity

The coplanarity of the SMT solder area lead is maintained at the high accuracy of less than 0.1mm.

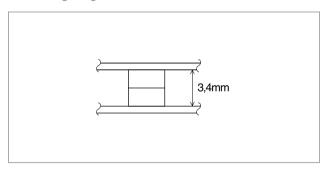
3. Mating Guide

The very small and guide rib is provided, and secures ± 0.6 mm self-alignment, considering the mating operativity into accounts.

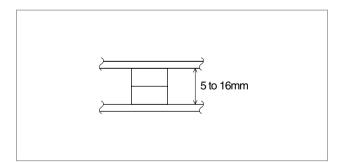
4. Mis-insertion Prevention

The boss prevents mis-insertion in the board to cause due to the boss position and boss diameter.

Stacking Height 3,4mm-FX8 Series



Stacking Height 5 to 16mm-FX8C Series



■Applications

Note pc, business equipments, which require miniaturization or light-weight

FX8 Series

■Product Specifications

Doting	Current rating 0.4A	Operating Temperature Range -55°C to +85°C 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	Specification	Condition		
1. Insulation Resistance	1000M ohms min	250V DC		
2. Withstanding voltage	No flashover or insulation breakdown.	300V AC/1 minute		
3. Contact Resistance	45m ohms max.	100mA		
4. Vibration	No electrical discontinuity of 1 μ 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: 55m ohms max.: Insulation resistance: 100M ohms min.	96 hours at temperature of 40°C and humidity of 90% to 95%		
6 Tomporatura Cyala	Contact resistance: 55m ohms max.; Insulation resistance: 100M ohms min.	(-55°C: 30 minutes, 15 to 35°C: 2 to 3 minutes		
6. Temperature Cycle	Contact resistance, 55m onns max Insulation resistance, 100m onns min.	85℃: 30 minutes, 15 to 35℃: 2 to 3 minutes) 5 cycles		
7. Durability (Mating/un-mating)	Contact resistance: 55m ohms max.	50 cycles		
C. Decistance to Coldering heat	No defermation of components offecting performance	Reflow: At the recommended temperature profile		
8. Resistance to Soldering heat	No deformation of components affecting performance.	Manual soldering: 360°C for 5 seconds		

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.

■Material

Part	Material	Fin	Finish Remarks			
Insulator	PPS	Light brown		Light brown		UL94V-0
Header Contact	Phosphor bronze	Contact area Lead area	Gold plated Tin (Note 2)			
Receptacle Contact	Phosphor bronze	Contact area Lead area	Gold plated			

Note 1: Slight variations in color of the plastic compounds do not affect form ,fit or function of the connector. Note 2: FX8-*P-SV is gold plated.

■Ordering Information

Single Product

① Series Name:	FX8	5 Product height variation NoneStandard (Minimum low profile)
2 Number of Cont	acts :60, 80, 90, 120, 140	1:+1mm
3 Connector type	P : Header	Package Form
	S : Receptacle	None,(71): Tray package product
4 Contact type	SV : Board vertical type	(21),(91) : Tube packaging product
		(22),(92) : Emboss tape package product

*The embossed tape packaging product is prepared for all number of contacts, except for 140 contacts.

The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information.

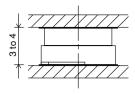
All non-Roha xagueta accurate design information.

All non-Roha xagueta accurate design information.

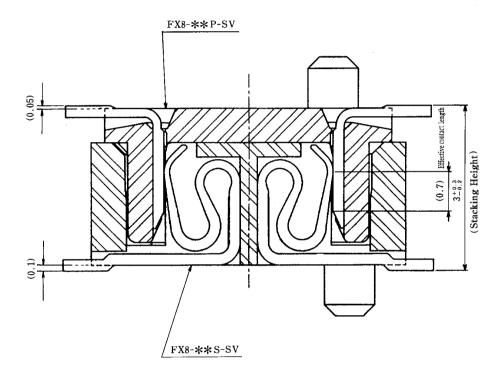
● Stacking Height Variation

Single Product

	FX8-**P-SV	FX8-**P-SV1
FX8-**S-SV	3mm	4mm



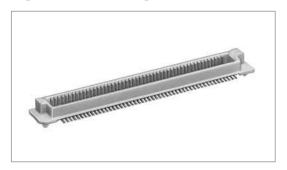
● Mating Sectional View

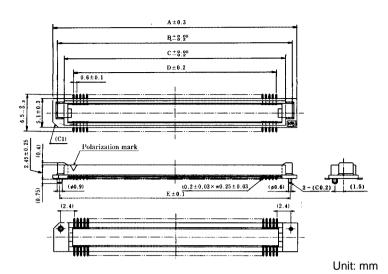


(The above illustration represents the stacking height 3mm type.)

■Header

[FX8-**P-SV]

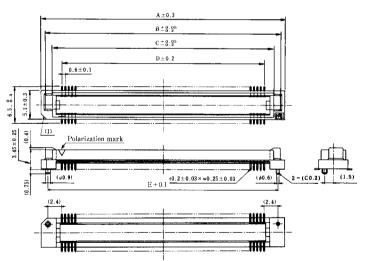




Part Number	CL No.	Number of Contacts	Α	В	С	D	E	Tube packaging Quantity (Pieces)	RoHS
FX8- 60P-SV(92)	578-0001-6-92	60	24.60	23.00	20.70	17.40	22.20	21	
FX8- 80P-SV(92)	578-0003-1-92	80	30.60	29.00	26.70	23.40	28.20	17	
FX8- 90P-SV(92)	578-0004-4-92	90	33.60	32.00	29.70	26.40	31.20	15	VEC
FX8-100P-SV(92)	578-0005-7-92	100	36.60	35.00	32.70	29.40	34.20	14	YES
FX8-120P-SV(92)	578-0006-0-92	120	42.60	41.00	38.70	35.40	40.20	12	
FX8-140P-SV(92)	578-0007-2-92	140	48.60	47.00	44.70	41.40	46.20	10	

- ** 71 : Tray packaging product, 91: Tube packaging product, 92: Embossed tape packaging product
- Note 1: To order the tube packaging product, determine a quantity for delivery, multiplying the tube packaging product by an integer.
- Note 2: The embossed tape package product is prepared for all number of contacts, except for 140 contacts. In addition, the product will be procured by the reel unit at 1 reel = 1000 pieces. Please refer to the delivery form item on page A172 for details.
- Note 3: Tray packaging product is not for board placement with automatic equipment.





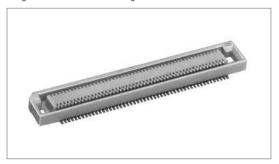
Unit: mm

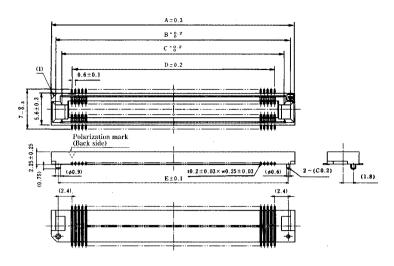
Part Number	CL No.	Number of Contacts	Α	В	С	D	E	Tube packaging Quantity (Pieces)	RoHS
FX8- 60P-SV1(92)	578-0041-0-92	60	24.60	23.00	20.70	17.40	22.20	21	
FX8- 80P-SV1(92)	578-0043-6-92	80	30.60	29.00	26.70	23.40	28.20	17	
FX8- 90P-SV1(92)	578-0044-9-92	90	33.60	32.00	29.70	26.40	31.20	15	VEC
FX8-100P-SV1(92)	578-0045-1-92	100	36.60	35.00	32.70	29.40	34.20	14	YES
FX8-120P-SV1(92)	578-0046-4-92	120	42.60	41.00	38.70	35.40	40.20	12	
FX8-140P-SV1(92)	578-0047-7-92	140	48.60	47.00	44.70	41.40	46.20	10	

- ** 71: Tray packaging product, 91: Tube packaging product, 92: Embossed tape packaging product
- Note 1: To order the tube packaging product, please determine a quantity for delivery, multiplying the tube package product by an integer.
- Note 2: The embossed tape package product is prepared for the entire number of contacts, except for 140 contacts. In addition, the product will be sold by the reel unit when 1 reel = 1000 pieces. Please refer to the delivery form item on page A172 for details.
- Note 3: Tray packaging product is not for board placement with automatic equipment.

■Receptacle

[FX8-**S-SV]





Unit: mm

Part Number	CL No.	Number of Contacts	Α	В	С	D	Е	Tube packaging Quantity (Pieces)	RoHS
FX8-060S-SV(22)	CL578-0201-5-22	60	24.60	23.05	20.80	17.40	22.20	21	
FX8-080S-SV(22)	CL578-0203-0-22	80	30.60	29.05	26.80	23.40	28.20	17	
FX8-090S-SV(22)	CL578-0204-3-22	90	33.60	32.05	29.80	26.40	31.20	15	VEC
FX8-100S-SV(22)	CL578-0205-6-22	100	36.60	35.05	32.80	29.40	34.20	14	YES
FX8-120S-SV(22)	CL578-0206-9-22	120	42.60	41.05	38.80	35.40	40.20	12	
FX8-140S-SV(22)	CL578-0207-1-22	140	48.60	47.05	44.80	41.40	46.20	10	

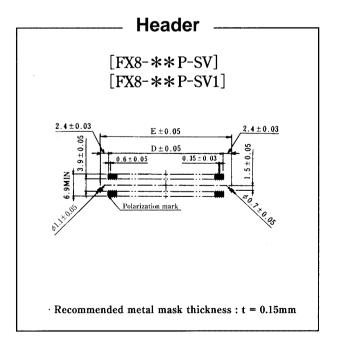
** None: Tray packaging product, 21: Tube packaging product, 22: Embossed tape packaging product

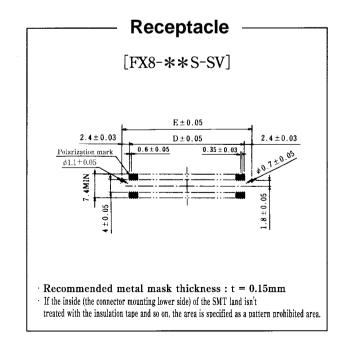
: To order the tube packaging product, determine a quantity for delivery, multiplying the tube packaging product by an integer.

Note 2 : 0The embossed tape package product is prepared for the entire number of contacts, except for 140 contacts. In addition, the product will be sold per reel when 1 reel = 1000 pieces. Please refer to the delivery form item on page A172 for details.

Note 3 : Tray packaging product is not for board placement with automatic equipment.

▶PCB mounting pattern





♦ Connector Precautions for use

1. Tolerance Clearance on Mating Side

The effective contact length of the product is set to 0.7mm. Please use the product so as to set the clearance to less than 0.2mm between the header and the receptacle in the mating process.

2. Fixation between Mounting Boards

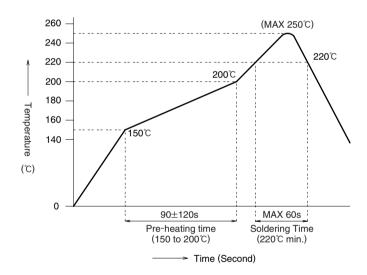
The very low profile and compact product, so never fix the connector between boards by mating force only

3. Stacking Height Tolerance for Mating

Stack 3mm	3 ^{+0.3} mm
Stack 4mm	4 ^{+0.3} mm

Note: Please Note that the above stacking tolerance doesn't include the solder paste thickness.

4. Mounting Temperature Profile (Reference)



HRS test conditions

Test boardGlass epoxy 161mm×100mm×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.

● Packaging Type

Packaging Type	Number of contacts	60 contacts	80 contacts	90contacts	100 contacts	120 contacts	140 contacts			
	Product Pieces	21 pieces	17 pieces	15 pieces	14 pieces	12pieces	10pieces			
Tube packaging	Unit Packaged Sales	Deliver multiplying product pieces (60 contacts: 21, 42)								
	Tube Total Length		550mm±2mm							
	Tape Width	44mm	44mm	44mm	56mm	56mm	72mm			
	Product Pitch	12mm								
Embossed Tape Packaging	Emboss Reel Diameter	Refer to the table on catalog page A173.								
	Product Pieces	1000 pieces per reel								
	Unit Packaged Sales	Per reel								

^{*}The above packaging describes about the single product only.

In addition, the packaging of the two-piece connection product is packaged by tray.

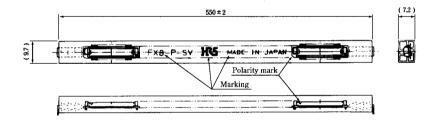
● Packaging Specification

[Tube packaging]

•Header

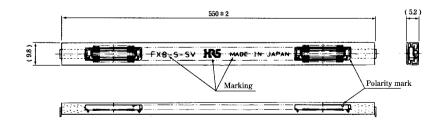
[FX8-**P-SV (91)]

[FX8-**P-SV1 (91)]

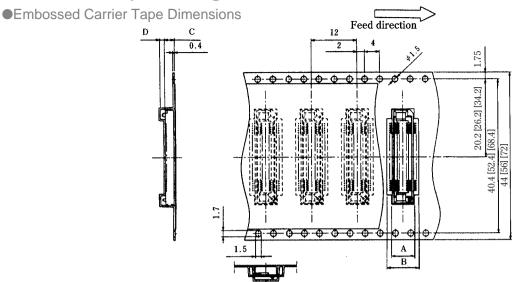


Receptacle

[FX8-**S-SV (21)]



[Embossed Tape Package]



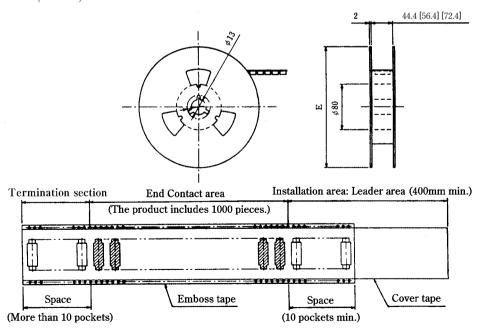
*The above pattern represents the receptacle connector case.

Unit: mm

P/S	Product No.	А	В	С	D	Е
Header	FX8-**P-SV (92) 5.5	7.9	3.2		φ 330	
ricadei	FX8-**P-SV1 (92)	5.5	7.9	4.2	12	φ 360
Receptacle	FX8-**S-SV (22)	6.0	8.4	2.6		φ 330

**: Number of Contacts

● Reel Dimensions (FREE)



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Contact Us:

Address:

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd Minhang District, Shanghai , China

Sales:

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

Customer Service :

Email service@ameya360.com

Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com