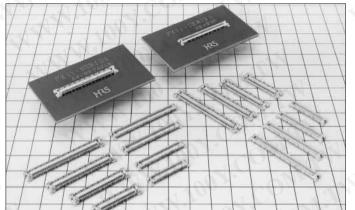
10

0.5mm Pitch Connectors with Ground Plate for 2mm to 3mm Board-to-Board Connections

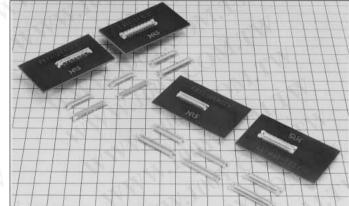
FX11 Series

Stacking height: 2mm



Stacking height: 2.5mm, 3mm

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw



■Features

1. Low Profile Design

The board to board mating height of 2mm, 2.5mm and 3mm suits smaller, thinner case designs.

2. Improved Transmission Efficiency Between Boards

Transmission characteristics have been improved through a design that fixes ground plates to both sides of the header and receptacle.

3. 10 Signal:1 Ground Arrangement

Signal and ground are arranged in a ratio of 10:1 with the ground plate SMT connected to the board. The ground stability achieved serves to reduce noise.

4. Metal Fittings for Added Solder Weld Strength

Metal fittings provide greater adhesion to the board, protecting against peeling. The unique connector design provides a connection between the fitting and the ground plate for a stronger ground.

5. Suited to High-Density Applications

The signal contact pitch of 0.5mm produces a smaller connector utilizing less board area for mounting.

6. Structure Prevents Solder Wicking

A solder gap has been designed into the contact SMT portion to prevent solder wicking.

7. High contact reliability

Effective mating length is 0.55mm (2mm height), 1mm(2.5mm, 3mm height) for signal contacts.

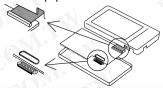
8. Optional Ground Plate

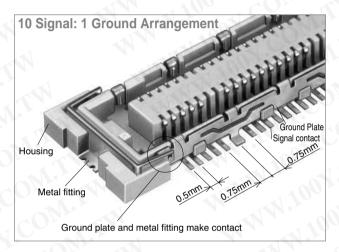
An alternate style without the ground plate is available. The space provided by the ground plate removal has been filled with additional signal contacts.

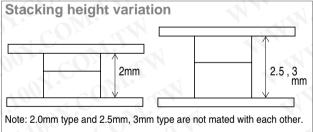
■Applications

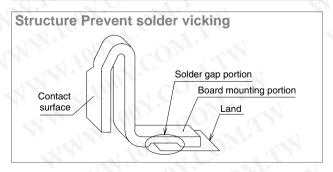
Notebook computers, PDA, and other miniature electronic equipment.













●Stacking height variation

With ground plate

Receptacle	Header	FX11L#-%P / %-SV
	FX11L#-%S / %-SV	2mm

Receptacle	FX11#-%P / %-SV	FX11#-%P / %-SV0.5
FX11#-%S / %-SV	2.5mm	3mm

Without ground plate

Receptacle	FX11L#-※P-SV
FX11L#-%S-SV	2mm

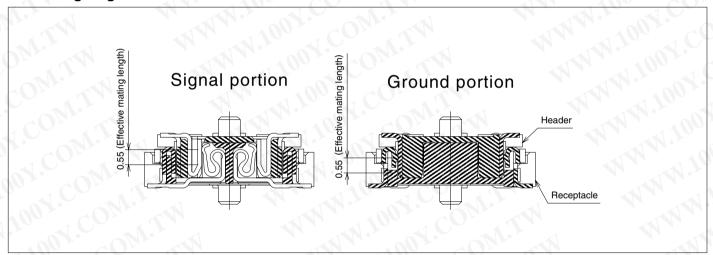
Receptacle	FX11#-%P-SV	FX11#-%P-SV0.5
FX11#-%S-SV	2.5mm	3mm

Note 1: The thickness of the solder paste is not included in the stacking height.

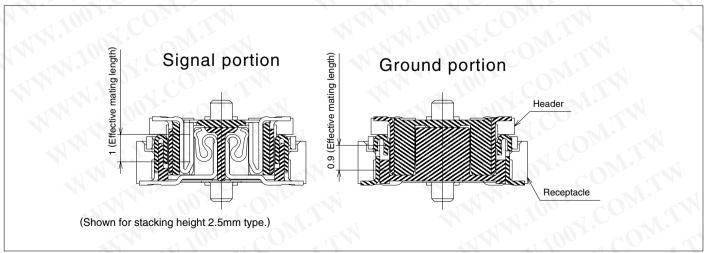
Note 2: 2mm type and 2.5mm, 3mm type, with ground plate type and without ground type are not mated with each other.

●Cross section of mating

Stacking height : 2mm



• Stacking height: 2.5mm, 3mm



Stacking height: 2mm

■Product Specifications

		Rated current	0.3 A (Note 1)	Operating temperature range	-55 to 85℃	Storage temperature range	-10 to +60°C (Note 2)
R	ating	Rated voltage	50 V AC	Operating humidity range	Relative humidity 95% or less	Storage humidity range	40 to 70% (Note 2)
		11.		M. T	(No condensation)		

Item	Requirements	Conditions
1. Insulation resistance	100 MΩ or greater	Measured at 100 V DC
2. Voltage proof	No flashover or breakdown	150 V AC applied for one minute
3. Contact resistance	60 mΩ or less	Measured at 100 mA
4. Vibration	No electrical discontinuity for 1 μ s or greater No damage, cracks, or parts looseness	Frequency: 10 to 55 Hz, amplitude of 0.75 mm in 3 directions, 10 cycles each
5. Shock	No electrical discontinuity for 1 μ s or longer No damage, cracks, or parts looseness	Acceleration of 490 m/s², 11ms duration, sine half-wave waveform, for 3 cycles in the both directions of each of the 3 axes
6. Damp heat (Steady state)	Contact resistance of 70 m Ω or less, insulation resistance of 100 M Ω or greater, no damage, cracks, or parts looseness	Temperature of 40°C, humidity of 90 to 95%, duration 96 h
7. Temperature cycle	Contact resistance of 70 m Ω or less, insulation resistance of 100 M Ω or greater, no damage, cracks, or parts looseness	Temperature: $-55^{\circ}\text{C} \rightarrow 15 \text{ to } 35^{\circ}\text{C} \rightarrow 85^{\circ}\text{C} \rightarrow 15 \text{ to } 35^{\circ}\text{C}$ Time: 30 min. \rightarrow 2 to 3 min. \rightarrow 30 min. \rightarrow 2 to 3 min. for 5 cycles
8. Durability	Contact resistance of 70 mΩ or less No damage, cracks, or parts looseness	50 times
Resistance to soldering heat	No melting of resin portion which affects performance	Reflow: At the recommended temperature profile Soldering iron temperature: 360°C for 5 seconds

Note 1: The term storage refers to an unused products prior to board mounting (including packing materials) that is being kept for a long period. The operating temperature and humidity range are applied to the non-conducting condition following board assembly.

Note 2: Information contained in this catalog represents general requirements for this Series. Contact us for the drawings and specifications for a specific part number shown.

■Materials

Part	Material		Remarks	
Insulator	LCP	Beige	Or, LA	UL94V-0
Cartasta	Copper alloy	Header	Engagement Area: Gold plating of 0.1 µm	
Contacts Phosphor bronze		Receptacle	Termination Area: Flash plating	
Ground plate	Phosphor bronze	Tin plating	100, 00, 10	
Metal fitting	Discoulo de la companya della companya della companya de la companya de la companya della compan	Time all times		
Metal plate	Phosphor bronze	Tin plating	, 100 CON UN	

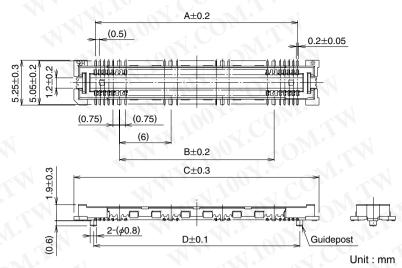
■Ordering information

0	Series name : FX11L	4	Connector type
2	Form Symbol A: With guide post		P: Header
	B : Without guide post	4	S : Receptacle
8	Number of contacts Type with ground plate	6	Contact form
	Signal/Ground:60/6, 80/8,	-1	SV : Straight SMT
	100/10, 120/12	6	Blank, (71): Tray packaging (Without pick-and-place tape)
	Type without ground		(21),(91): Embossed tape packaging (Without pick-and-place tape)
	Signal: 68, 92, 116, 140		(22),(92): Embossed tape packaging (With pick-and-place tape)

■Header with ground Plate

2mm stacking height





Doub Number	CI No	Number of	of contacts		_		D .	N.	F-1	Damada	Dallo
Part Number	CL NO.	CL No. Signal Ground A B C D	D	E	F	Remarks	RoHS				
FX11LA- 60P/ 6-SV(71)	573-0002-7-71	60	6	17.5	12	22.6	18	19.4	25.5	1 1	CA.
FX11LA- 80P/ 8-SV(71)	573-0003-0-71	80	8	23.5	18	28.6	24	25.4	31.5	Mith guidenests	\ \alpha(
FX11LA-100P/10-SV(71)	573-0004-2-71	100	10	29.5	24	34.6	30	31.4	37.5		1.0
FX11LA-120P/12-SV(71)	573-0005-5-71	120	12	35.5	30	40.6	36	37.4	43.5		VE0
FX11LB- 60P/ 6-SV(71)	573-0012-0-71	60	6	17.5	12	22.6		19.4	25.5		YES
FX11LB- 80P/ 8-SV(71)	573-0013-3-71	80	8	23.5	18	28.6	_	25.4	31.5	Without guideposts	
FX11LB-100P/10-SV(71)	573-0014-6-71	100	10	29.5	24	34.6	1	31.4	37.5		
FX11LB-120P/12-SV(71)	573-0015-9-71	120	12	35.5	30	40.6		37.4	43.5		

[Specifications number] - **, (**)

(71): Tray packaging

(91): Embossed tape packaging (Without pick-and-place tape)

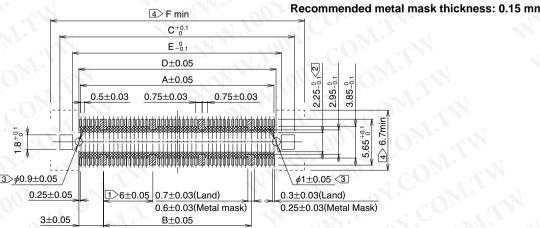
(92): Embossed tape packaging (With pick-and-place tape)

Note 1: There is no polarity in terms of board mounting for this product.

Note 2: The coplanarity of this product's SMT leads is 0.1 mm or less.

Note 3: Please order embossed tape packaged items by the reel. (One reel holds 1,000 pieces.)

Recommended Land Pattern Dimensions (Metal Mask Dimensions)

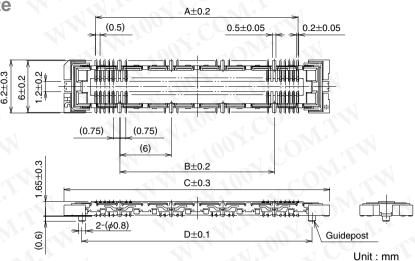


- 2 The cross-hatched area inside the SMT land may come into contact with the connector contacts and thus care should be taken that the pattern does not extend beyond the SMT land width.
- 3 Not required in products without guideposts.

■Receptacle with ground Plate

2mm stacking height





	Number	of contacts							100	OF	
Part Number	CL No.	Signal	Ground	Α	В	С	D	E	F	Remarks	RoHS
FX11LA- 60S/ 6-SV(71)	573-0102-1-71	60	6	17.5	12	25	20.8	25.4	22.2	1 100	
FX11LA- 80S/ 8-SV(71)	573-0103-4-71	80	8	23.5	18	31	26.8	31.4	28.2	VA/idla avviidla a a da	
FX11LA-100S/10-SV(71)	573-0104-7-71	100	10	29.5	24	37	32.8	37.4	34.2	With guideposts	
FX11LA-120S/12-SV(71)	573-0105-0-71	120	12	35.5	30	43	38.8	43.4	40.2	W , 100	\/F0
FX11LB- 60S/ 6-SV(71)	573-0112-5-71	60	6	17.5	12	25		25.4	22.2		YES
FX11LB- 80S/ 8-SV(71)	573-0113-8-71	80	8	23.5	18	31	_	31.4	28.2	Without guideposts	
FX11LB-100S/10-SV(71)	573-0114-0-71	100	10	29.5	24	37	1	37.4	34.2		
FX11LB-120S/12-SV(71)	573-0115-3-71	120	12	35.5	30	43		43.4	40.2		

[Specifications number] - **, (**)

(71): Tray packaging (Without pick-and-place tape)

(91): Embossed tape packaging (Without pick-and-place tape)

(92): Embossed tape packaging (With pick-and-place tape)

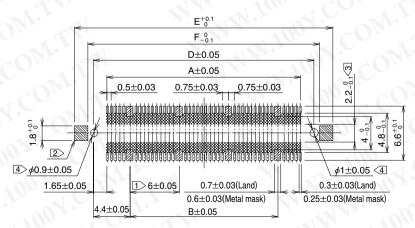
Note 1: There is no polarity in terms of board mounting for this product.

Note 2: The coplanarity of this product's SMT leads is 0.1 mm or less.

Note 3: Please order embossed tape packaged items by the reel. (One reel holds 1,000 pieces.)

Recommended Land Pattern Dimensions (Metal Mask Dimensions)

Recommended metal mask thickness: 0.15 mm

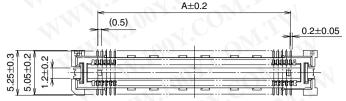


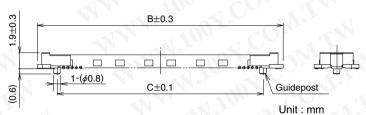
- 2 Cross-hatched portions, 2 places on both sides, indicate the metal fittings.
- 3 The cross-hatched area inside the SMT land may come into contact with the connector contacts and thus care should be taken that the pattern does not extend beyond the SMT land width.
- 4 Not required in products without guideposts.

■Header without ground Plate

2mm stacking height







Part Number	CL No.	Number of contacts Signal	Α	В	С	D	E	Remarks	RoHS
	570,0040,4,4,4								>
FX11LA- 68P-SV(**)	573-0042-1-**	68	16.5	22.6	18	19.4	25.5		_ 1
FX11LA- 92P-SV(**)	573-0043-4-**	92	22.5	28.6	24	25.4	31.5	With guideposts	0.5.
FX11LA-116P-SV(**)	573-0044-7-**	116	28.5	34.6	30	31.4	37.5	with guideposts	100
FX11LA-140P-SV(**)	573-0045-0-**	140	34.5	40.6	36	37.4	43.5		
FX11LB- 68P-SV(**)	573-0052-5-**	68	16.5	22.6	-	19.4	25.5		YES
FX11LB- 92P-SV(**)	573-0053-8-**	92	22.5	28.6		25.4	31.5	- Without guideposts	11
FX11LB-116P-SV(**)	573-0054-0-**	116	28.5	34.6	_	31.4	37.5		
FX11LB-140P-SV(**)	573-0055-3-**	140	34.5	40.6		37.4	43.5		

[Specifications number] - **, (**)

Blank: Tray packaging (Without pick-and-place tape)

(21): Embossed tape packaging (Without pick-and-place tape)

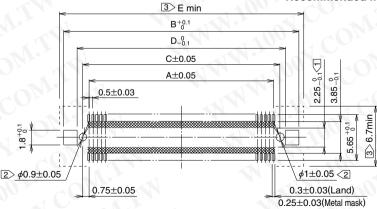
(22): Embossed tape packaging (With pick-and-place tape)

Note 1: There is no polarity in terms of board mounting for this product.

Note 2: The coplanarity of this product's SMT leads is 0.1 mm or less.

Note 3: Please order embossed tape packaged items by the reel. (One reel holds 1,000 pieces.)

Recommended metal mask thickness: 0.15 mm

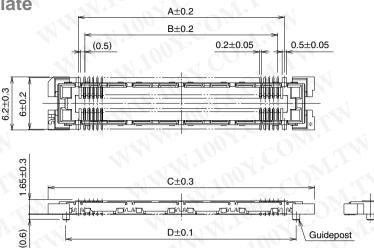


- Note 1 The cross-hatched area inside the SMT land may come into contact with the connector contacts and thus care should be taken that the pattern does not extend beyond the SMT land width.
 - 2 Not required in products without guideposts.

■Receptacle without ground Plate

2mm stacking height





Unit: mm

Part Number	CL No.	Number of contacts	Α	В	С	D	Remarks	RoHS
N		Signal						
FX11LA- 68S-SV(**)	573-0142-6-**	68	18	16.5	25	20.8		
FX11LA- 92S-SV(**)	573-0143-9-**	92	24	22.5	31	26.8	- With guideposts	40
FX11LA-116S-SV(**)	573-0144-1-**	116	30	28.5	37	32.8		
FX11LA-140S-SV(**)	573-0145-4-**	140	36	34.5	43	38.8		VEÓ
FX11LB- 68S-SV(**)	573-0152-0-**	68	18	16.5	25			YES
FX11LB- 92S-SV(**)	573-0153-2-**	92	24	22.5	31	_	Mithout quidoposto	
FX11LB-116S-SV(**)	573-0154-5-**	116	30	28.5	37	1	Without guideposts	
FX11LB-140S-SV(**)	573-0155-8-**	140	36	34.5	43			

[Specifications number] - **, (**)

Blank: Tray packaging (Without pick-and-place tape)

(21): Embossed tape packaging (Without pick-and-place tape)

(22): Embossed tape packaging (With pick-and-place tape)

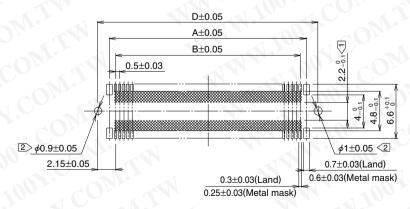
Note 1: There is no polarity in terms of board mounting for this product.

Note 2: The coplanarity of this product's SMT leads is 0.1 mm or less.

Note 3: Please order embossed tape packaged items by the reel. (One reel holds 1,000 pieces.)

◆Recommended Land Pattern Dimensions (Metal Mask Dimensions)

Recommended metal mask thickness: 0.15 mm



Note 1 The cross-hatched area inside the SMT land may come into contact with the connector contacts and thus care should be taken that the pattern does not extend beyond the SMT land width.

2 Not required in products without guideposts.

Stacking height: 2.5mm, 3mm

■Product Specifications

		Rated current	0.3 A (Note 1)	Operating temperature range	-55 to 85℃	Storage temperature range	-10 to +60°C (Note 2)
1	Rating	Rated voltage	50 V AC	Operating humidity range	Relative humidity 95% or less	Storage humidity range	40 to 70% (Note 2)
		11.		M. T	(No condensation)		

Item	Requirements	Conditions
1. Insulation resistance	100 MΩ or greater	Measured at 100 V DC
2. Voltage proof	No flashover or breakdown	150 V AC applied for one minute
3. Contact resistance	70 m Ω or less	Measured at 100 mA
4. Vibration	No electrical discontinuity for $1\mu s$ or greater No damage, cracks, or parts looseness	Frequency: 10 to 55 Hz, amplitude of 0.75 mm in 3 directions, 10 cycles each
5. Shock	No electrical discontinuity for 1 μ s or longer No damage, cracks, or parts looseness	Acceleration of 490 m/s², 11ms duration, sine half-wave waveform,for 3 cycles in the both directions of each of the 3 axes
6. Damp heat (Steady state)	Contact resistance of 80 m Ω or less, insulation resistance of 100 M Ω or greater, no damage, cracks, or parts looseness	Temperature of 40°C, humidity of 90 to 95%, duration 96 h
7. Temperature cycle	Contact resistance of 80 m Ω or less, insulation resistance of 100 M Ω or greater, no damage, cracks, or parts looseness	Temperature: -55° C → 15 to 35° C → 85° C → 15 to 35° C Time: 30 min. → 2 to 3 min. → 30 min. → 2 to 3 min. for 5 cycles
8. Durability	Contact resistance of 80 mΩ or less No damage, cracks, or parts looseness	50 times
Resistance to soldering heat	No melting of resin portion which affects performance	Reflow: At the recommended temperature profile Soldering iron temperature: 360°C for 5 seconds

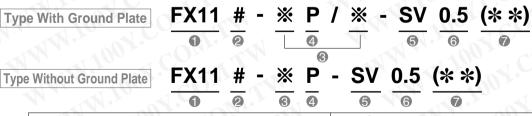
Note 1: The term storage refers to an unused products prior to board mounting (including packing materials) that is being kept for a long period. The operating temperature and humidity range are applied to the non-conducting condition following board assembly.

Note 2: Information contained in this catalog represents general requirements for this Series. Contact us for the drawings and specifications for a specific part number shown.

■ Materials

Part	Material	100	Remarks	
Insulator	LCP	Beige		UL94V-0
Carlo	Copper alloy	Header	Engagement Area: Gold plating of 0.1 µm	
Contacts	Phosphor bronze	Receptacle	Termination Area: Flash plating	
Ground plate	Phosphor bronze	Tin plating		
Metal fitting	Dhaanhay byanna	Tie white a	100,100,100	
Metal plate	Phosphor bronze	Tin plating	1. 001. 0M. AN	

■Ordering information



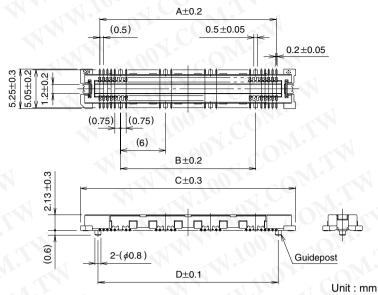
Series name : FX11	Connector type
Form Symbol A: With guide post	P : Header S : Receptacle
B : Without guide post	Contact form SV : Straight SMT
Number of contacts Type with ground plate	Product height
Signal/Ground:60/6,	Blank: Standard
80/8, 100/10	0.5 : Standard + 0.5mm
Type without ground	Blank, (71): Tray packaging (Without pick-and-place tape) (21),(91): Embossed tape packaging (Without pick-and-place tape)
Signal: 80, 100	(22),(92): Embossed tape packaging (With pick-and-place tape)

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 products free her similar to the discretive date of the process of the second of the product of the process of the proces

■Header with ground plate

• 2.5mm stacking height





Part Number	CL No.	Number o	of contacts	4 1	В	С	D	E	F	Remarks	RoHS
Part Number	GL NO.	Signal Ground		Α	D		U) F	Hemarks	нопо
FX11A- 60P/06-SV(71)	573-0502-0-71	60	6	17.5	12	22.6	18	19.4	25.5	100	10
FX11A- 80P/08-SV(71)	573-0503-2-71	80	8	23.5	18	28.6	24	25.4	31.5	With guideposts	
FX11A-100P/10-SV(71)	573-0504-5-71	100	10	29.5	24	34.6	30	31.4	37.5	100	VEC
FX11B- 60P/06-SV(71)	573-0512-3-71	60	6	17.5	12	22.6		19.4	25.5		YES
FX11B- 80P/08-SV(71)	573-0513-6-71	80	8	23.5	18	28.6	_	25.4	31.5	Without guideposts	
FX11B-100P/10-SV(71)	573-0514-9-71	100	10	29.5	24	34.6		31.4	37.5		100

[Specifications number] - **, (**)

(71): Tray packaging (Without pick-and-place tape)

(91) : Embossed tape packaging (Without pick-and-place tape)

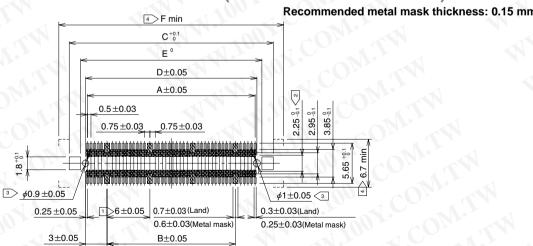
(92) : Embossed tape packaging (With pick-and-place tape)

Note 1: There is no polarity in terms of board mounting for this product.

Note 2: The coplanarity of this product's SMT leads is 0.1 mm or less.

Note 3: Please order embossed tape packaged items by the reel. (One reel holds 1,000 pieces.)

♠Recommended Land Pattern Dimensions (Metal Mask Dimensions)

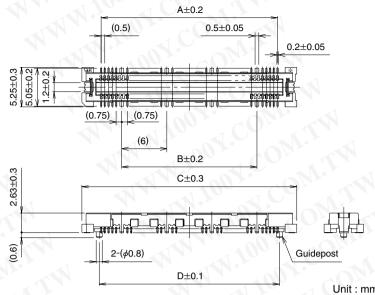


- 2 The cross-hatched area \implies inside the SMT land may come into contact with the connector contacts and thus care should be taken that the pattern does not extend beyond the SMT land width.
- 3 Not required in products without guideposts.

■Header with ground plate

3mm stacking height





Part Number	CL No.		of contacts	A	В	С	D	E	F	Remarks	RoHS
		Signal	Ground		_1				- 1		
FX11A- 60P/ 6-SV0.5(71)	573-0602-4-71	60	6	17.5	12	22.6	18	19.4	25.5	100	1
FX11A- 80P/ 8-SV0.5(71)	573-0603-7-71	80	8	23.5	18	28.6	24	25.4	31.5	With guideposts	
FX11A-100P/10-SV0.5(71)	573-0604-0-71	100	10	29.5	24	34.6	30	31.4	37.5	1, 100	VE0
FX11B- 60P/ 6-SV0.5(71)	573-0612-8-71	60	6	17.5	12	22.6		19.4	25.5		YES
FX11B- 80P/ 8-SV0.5(71)	573-0613-0-71	80	8	23.5	18	28.6		25.4	31.5	Without guideposts	
FX11B-100P/10-SV0.5(71)	573-0614-3-71	100	10	29.5	24	34.6		31.4	37.5		100

[Specifications number] - **, (**)

(71): Tray packaging (Without pick-and-place tape)

(91): Embossed tape packaging (Without pick-and-place tape)

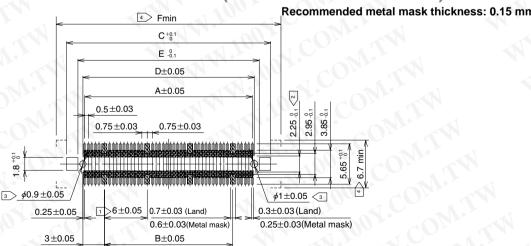
(92) : Embossed tape packaging (With pick-and-place tape)

Note 1: There is no polarity in terms of board mounting for this product.

Note 2: The coplanarity of this product's SMT leads is 0.1 mm or less.

Note 3: Please order embossed tape packaged items by the reel. (One reel holds 1,000 pieces.)

♠Recommended Land Pattern Dimensions (Metal Mask Dimensions)

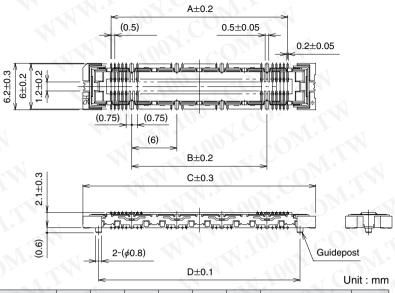


- 2 The cross-hatched area inside the SMT land may come into contact with the connector contacts and thus care should be taken that the pattern does not extend beyond the SMT land width.
- 3 Not required in products without guideposts.

■Receptacle with ground plate

2.5mm, 3mm stacking height





Part Number	CL No.	Number o	of contacts	A	В	С	D	E	F	Remarks	RoHS
r art ivuilibei	CL NO.	Signal Ground		7	5				21	Hemarks	NUHS
FX11A- 60S/ 6-SV(71)	573-0702-9-71	60	6	17.5	12	25	20.8	25.4	22.2	100	10
FX11A- 80S/ 8-SV(71)	573-0703-1-71	80	8	23.5	18	31	26.8	31.4	28.2	With guideposts	
FX11A-100S/10-SV(71)	573-0704-4-71	100	10	29.5	24	37	32.8	37.4	34.2	11.100	VE0
FX11B- 60S/ 6-SV(71)	573-0712-2-71	60	6	17.5	12	25		25.4	22.2		YES
FX11B- 80S/ 8-SV(71)	573-0713-5-71	80	8	23.5	18	31		31.4	28.2	Without guideposts	
FX11B-100S/10-SV(71)	573-0714-8-71	100	10	29.5	24	37	1	37.4	34.2		100

[Specifications number] - **, (**)

(71): Tray packaging (Without pick-and-place tape)

(91): Embossed tape packaging (Without pick-and-place tape)

(92) : Embossed tape packaging (With pick-and-place tape)

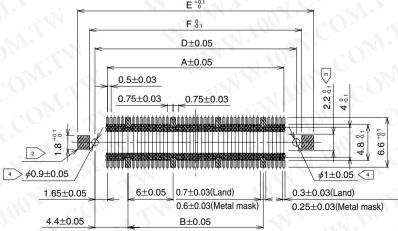
Note 1: There is no polarity in terms of board mounting for this product.

Note 2: The coplanarity of this product's SMT leads is 0.1 mm or less.

Note 3: Please order embossed tape packaged items by the reel. (One reel holds 1,000 pieces.)

Recommended Land Pattern Dimensions (Metal Mask Dimensions)

Recommended metal mask thickness: 0.15 mm

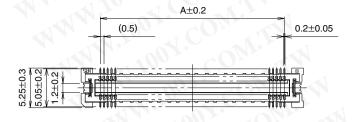


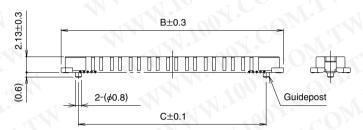
- 2 Cross-hatched portions, totaling 2 places, indicate the metal fittings.
- 3) The cross-hatched area inside the SMT land may come into contact with the connector contacts and thus care should be taken that the pattern does not extend beyond the SMT land width.
- 4 Not required in products without guideposts.

■Header without ground Plate

2.5mm stacking height







Unit: mm

Part Number	CL No.	Number of contacts Signal	Α	В	С	D	E	Remarks	RoHS
FX11A- 80P-SV(**)	573-0548-0-**	80	19.5	24.6	20	21.4	27.5	14.0	
FX11A-100P-SV(**)	573-0543-7-**	100	24.5	29.6	25	26.4	32.5	With guideposts	
FX11B- 80P-SV(**)	573-0558-4-**	80	19.5	24.6	- 11	21.4	27.5	VACAL TO A STATE OF THE	YES
FX11B-100P-SV(**)	573-0553-0-**	100	24.5	29.6		26.4	32.5	Without guideposts	13

[Specifications number] - **, (**)

Blank: Tray packaging (Without pick-and-place tape)

(21): Embossed tape packaging (Without pick-and-place tape)

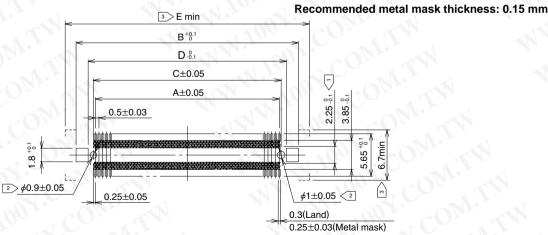
(22) : Embossed tape packaging (With pick-and-place tape)

Note 1: There is no polarity in terms of board mounting for this product.

Note 2: The coplanarity of this product's SMT leads is 0.1 mm or less.

Note 3: Please order embossed tape packaged items by the reel. (One reel holds 1,000 pieces.)

♠Recommended Land Pattern Dimensions (Metal Mask Dimensions)

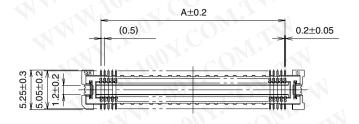


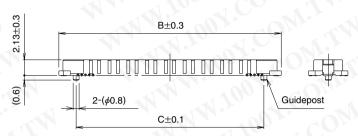
- Note 1 The cross-hatched area inside the SMT land may come into contact with the connector contacts and thus care should be taken that the pattern does not extend beyond the SMT land width.
 - 2 Not required in products without guideposts.

■Header without ground Plate

3mm stacking height







Unit: mm

Part Number	CL No.	Number of contacts Signal	Α	В	С	D	E	Remarks	RoHS
FX11A- 80P-SV0.5(**)	573-0648-5-**	80	19.5	24.6	20	21.4	27.5	Mith aviidanaata	
FX11A-100P-SV0.5(**)	573-0643-1-**	100	24.5	29.6	25	26.4	32.5	With guideposts	\(\frac{1}{2}\)
FX11B- 80P-SV0.5(**)	573-0658-9-**	80	19.5	24.6		21.4	27.5	Mithout guidenests	YES
FX11B-100P-SV0.5(**)	573-0653-5-**	100	24.5	29.6		26.4	32.5	Without guideposts	13

[Specifications number] - **, (**)

Blank: Tray packaging (Without pick-and-place tape)

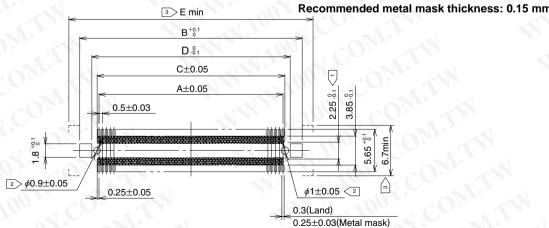
(21): Embossed tape packaging (Without pick-and-place tape)

(22) : Embossed tape packaging (With pick-and-place tape)

Note 1: There is no polarity in terms of board mounting for this product.

Note 2: The coplanarity of this product's SMT leads is 0.1 mm or less.

Note 3: Please order embossed tape packaged items by the reel. (One reel holds 1,000 pieces.)



- Note 1 The cross-hatched area inside the SMT land may come into contact with the connector contacts and thus care should be taken that the pattern does not extend beyond the SMT land width.
 - 2 Not required in products without guideposts.

■ Receptacle without ground plate

■ 2.5mm, 3mm stacking height

© 2.5mm, 3mm stacking height

Part Number	CL No.	Number of contacts	^	В				Remarks	RoHS
Part Number	GL NO.	Signal	A			0		nemarks	HUIIS
FX11A- 80S-SV(**)	573-0748-0-**	80	19.5	27	22.8	27.4	24.2	With guidenests	
FX11A-100S-SV(**)	573-0743-6-**	100	24.5	32	27.8	32.4	29.2	With guideposts	\(\(\)
FX11B- 80S-SV(**)	573-0758-3-**	80	19.5	27	-	27.4	24.2	Mith out avidon acto	YES
FX11B-100S-SV(**)	573-0753-0-**	100	24.5	32		32.4	29.2	Without guideposts	11

[Specifications number] - **, (**)

Blank: Tray packaging (Without pick-and-place tape)

(21) : Embossed tape packaging (Without pick-and-place tape)

(22): Embossed tape packaging (With pick-and-place tape)

Note 1: There is no polarity in terms of board mounting for this product.

Note 2: The coplanarity of this product's SMT leads is 0.1 mm or less.

Note 3: Please order embossed tape packaged items by the reel. (One reel holds 1,000 pieces.)

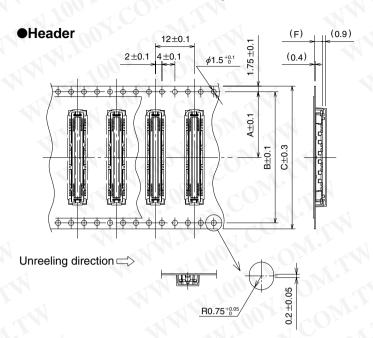
Recommended metal mask thickness: 0.15 mm $\frac{D_0^{+0.1}}{E_0^{+0.1}}$ $\frac{E_0^{+0.1}}{O.5\pm0.05}$ $\frac{C\pm0.05}{A\pm0.05}$ $\frac{0.5\pm0.03}{A\pm0.03}$ $\frac{\phi_0^{+0.9}\pm0.05}{O.25\pm0.03(Metal mask)}$

Note 1 The cross-hatched area inside the SMT land may come into contact with the connector contacts and thus care should be taken that the pattern does not extend beyond the SMT land width.

2 Not required in products without guideposts.

Unit: mm

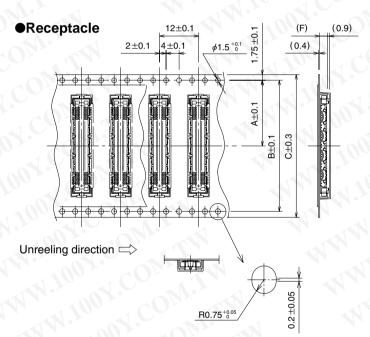
● Embossed Carrier Tape Dimensions



					Un	it : mm
Insertion Connector	A	В	С	D	E	F
FX11L#- 60P/ 6-SV	00.0	40.4	11	45.5	50 F	
FX11L#- 80P/ 8-SV	20.2	40.4	44	45.5	50.5	
FX11L#-100P/10-SV	06.0	FO 4	EG	F0	64	
FX11L#-120P/12-SV	26.2	52.4	56	59	64	1 00
FX11L#- 68P -SV	20.0	10.1	44	AE E	E0 E	1.98
FX11L#- 92P -SV	20.2	40.4	44	45.5	50.5	
FX11L#-116P -SV	26.2	52.4	56	59	64	
FX11L#-140P -SV	20.2	52.4	56	59	04	
FX11 #- 60P/ 6-SV	20.2	40.4	44	45.5	50.5	
FX11 #- 80P/ 8-SV	20.2	40.4	44	45.5	30.5	1
FX11 #-100P/10-SV	26.2	52.4	56	59	64	2.48
FX11 #- 80P -SV	20.2	40.4	44	45.5	50.5	-1
FX11 #-100P -SV	20.2	40.4	44	45.5	50.5	
FX11 #- 60P/ 6-SV0.5	20.2	40.4	44	45.5	50.5	
FX11 #- 80P/ 8-SV0.5	20.2	40.4	777	45.5	30.3	
FX11 #-100P/10-SV0.5	26.2	52.4	56	59	64	2.98
FX11 #- 80P -SV0.5	20.2	40.4	44	45.5	50.5	
FX11 #-100P -SV0.5	20.2	70.4	77	75.5	30.3	

Note 1: There is no polarity in terms of embossed tape packaging for this product.

Note 2: Left figure is representative of products with ground plates.

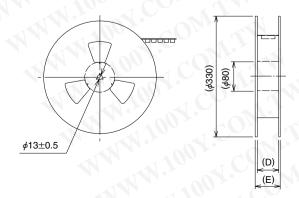


					Un	it : mm
Insertion Connector	Α	В	С	D	E	F
FX11L#- 60S/ 6-SV	20.2	40.4	44	45.5	50.5	
FX11L#- 80S/ 8-SV	20.2	40.4	44	45.5	50.5	
FX11L#-100S/10-SV	26.0	52.4	56	59	64	0
FX11L#-120S/12-SV	26.2	52.4	56	59	64	2
FX11L#- 68S -SV	20.2	40.4	44	45.5	50.5	2
FX11L#- 92S -SV	20.2	40.4	44	45.5	50.5	
FX11L#-116S -SV	26.2	52.4	56	59	64	10
FX11L#-140S -SV	26.2	52.4	50	59	04	
FX11 #- 60S/ 6-SV	20.2	40.4	44	45.5	50.5	
FX11 #- 80S/ 8-SV	20.2	40.4	44	45.5	50.5	
FX11 #-100S/10-SV	26.2	52.4	56	59	64	2.45
FX11 #- 80S -SV	20.0	40.4	44	45.5	EO E	
FX11 #-100S -SV	20.2	40.4	44	45.5	50.5	

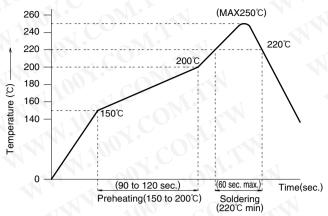
Note 1: There is no polarity in terms of embossed tape packaging for this product.

Note 2: Left figure is representative of products with ground plates.

•Reel Dimensions



◆Recommended Temperature Profile



Note: The temperature profile indicates the maximum temperature of the connector surfaces at the highest point from the PCB mounting surface.

HRS test conditions

Test boardGlass epoxy 60mm×35mm×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.

Washing Conditions

Organic Solvent Washing

Solvent	Room temperature washing	Heated washing
IPA(Isopropyl alcohol)	Yes	Yes
HCFC(Hydrochlorofluorocarbon)	Yes	Yes

Water Type Washing

When using water type cleaning agents (e.g., terpene, and alkali saponifiers), select the cleaning agent based on the documentation issued by the various manufacturers of cleaning agents which describes the effects on metals and resins. Be careful that parts are not left with moisture remaining on them.

Washing Precautions

Residual flux or cleaning agent on the contacts when washing with organic solvents or water type cleaners can give rise to the deterioration of electrical performance. In this regard it is important to check whether a thorough washing has been performed.

● Connector Handling Precautions

1. Allowable Creepage Dimensions at Time of Mating

[Stacking height: 2mm]

The effective coupling length of this product is 0.55 mm for the signal portion and the ground portion. The creepage of the header and receptacle at the time of mating should be within 0.18 mm of the completely coupled condition.

[Stacking height: 2.5mm, 3mm]

The effective coupling length of this product is 1 mm for the signal portion and 0.7mm for the ground portion. The creepage of the header and receptacle at the time of mating should be within 0.4 mm of the completely coupled condition.

2. Compatibility

2mm type and 2.5mm, 3mm type, with ground plate type and without ground type are not mated with each other.

3. Retension of Boards

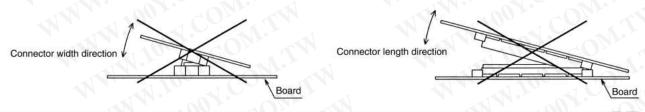
Avoid the support of boards by connectors alone and adopt a board locking measure that does not rely on the connectors.

4. Solder Repair

Flux may rise as far as the contact portion of the connector depending on the flux coating and other factors at the time of repair. This will cause poor contact reliability; therefore, before use, the aforementioned washing conditions should be taken into consideration prior to connector washing.

5. Miscellaneous

- ·Note that excessive twisting while inserting or withdrawing connectors will cause damage.
- ·The shade of the molded items may vary somewhat depending on the manufacturing lot; however, this does not affect performance.



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