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.

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

FX11 Series

Stacking height : 2mm



Stacking height : 2.5mm, 3mm



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
	المعامية المعامية	

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°C			Storage temperature range	-10 to +60℃ (Note 2)			
Rating	Rated voltage	50 V AC	Operating humidity range	Relative humidity 95% or less		Storage humidity range	40 to 70% (Note 2)	
				(No condens	ation)			
	Item		Requirements			Conditions		
1. Insulat	tion resistance	100 MΩ or gre	eater		Measured at	100 V DC		
2. Voltag	e proof	No flashover	or breakdown		150 V AC ap	plied for one minute		
3. Contac	ct resistance	60 mΩ or less	3		Measured at	100 mA		
4. Vibrati	on		discontinuity for 1μ s or greater cracks, or parts looseness		Frequency: 1 10 cycles ead	0 to 55 Hz, amplitude of 0.75 ch	5 mm in 3 directions,	
5. Shock			discontinuity for 1μ s or longer cracks, or parts looseness			of 490 m/s², 11ms duration, si 3 cycles in the both direction		
6. Damp (Stead	heat dy state)		ance of 70 m Ω or less, insulation eater, no damage, cracks, or particular particular test of the second		Temperature of 40°C, humidity of 90 to 95%, duration 96 h			
7. Temp	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: $-55^{\circ}C \rightarrow 15$ to $35^{\circ}C \rightarrow 85^{\circ}C \rightarrow 15$ to $35^{\circ}C$ Time: 30 min. $\rightarrow 2$ to 3 min. $\rightarrow 30$ min. $\rightarrow 2$ to 3 min. for 5 cycle			
8. Durabi	8. Durability Contact resistance of 70 mΩ or less No damage, cracks, or parts looseness				50 times			
9. Resistance to soldering heat No melting of resin portion which affects performance				nce	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		Finish			
Insulator	LCP	Beige		UL94V-0		
	Copper alloyHeaderPhosphor bronzeReceptacle		Engagement Area: Gold plating of 0.1μ m			
Contacts			Termination Area: Flash plating			
Ground plate	Phosphor bronze	Tin plating				
Metal fitting	Dhaanhar branna	Tin plating				
Metal plate	Phosphor bronze	Tin plating				

Ordering information

Type With Ground Plate	FX11L #	- ※	P ④	-	/ ※	-	SV ©	<u>(* *)</u> ©
Type Without Ground Plate	FX11L #	- ※		8	SV 6	<u> </u>	*)	
• Series name : FX1	1L			4	Conne	ector t	уре	
Ø Form Symbol A :	With guide post				P : He	ader		
В:	Without guide post	t			S : Re	cepta	cle	
Output State St	sType with ground pla	ate		6	Conta	ct forr	n	
	Signal/Ground:60/	6, 80/8,			SV:S	traigh	t SMT	
100/10, 120/12					Blank, (71): Tray packaging (Without pick-and-place tape)			
Type without ground					(21),(9	1): Em	bossed	I tape packaging (Without pick-and-place tape)
Signal: 68, 92, 116, 140					(22),(9	2): Em	bossed	I 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-RoHS products have been discontinued, or will be disconting the approximation of the product of t



Part Number	CL No.	Number c	of contacts	•	в	с	D	Е	F	Remarks	RoHS
Fait Number	CLINO.	Signal	Ground	A	D		U	E	Г	nemarks	попо
FX11LA- 60P/ 6-SV(71)	573-0002-7-71	60	6	17.5	12	22.6	18	19.4	25.5		
FX11LA- 80P/ 8-SV(71)	573-0003-0-71	80	8	23.5	18	28.6	24	25.4	31.5	With guideposts	
FX11LA-100P/10-SV(71)	573-0004-2-71	100	10	29.5	24	34.6	30	31.4	37.5	with guideposis	
FX11LA-120P/12-SV(71)	573-0005-5-71	120	12	35.5	30	40.6	36	37.4	43.5		YES
FX11LB- 60P/ 6-SV(71)	573-0012-0-71	60	6	17.5	12	22.6		19.4	25.5		TES
FX11LB- 80P/ 8-SV(71)	573-0013-3-71	80	8	23.5	18	28.6	_	25.4	31.5		
FX11LB-100P/10-SV(71)	573-0014-6-71	100	10	29.5	24	34.6		31.4	37.5	Without guideposts	
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)



Note Cross-hatched portions, totaling n places, indicate the ground circuits.

 $|2\rangle$ The cross-hatched area \bigotimes 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.
- $\boxed{3}$ Not required in products without guideposts.
- (4) Do not mount a part other than this product in the area of [...]. Doing so will prevent the engagement of this and the mating connector.

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-RoH& produces berg, String product of the description of the context of the context of the second second



Part Number	CL No.	Number o	of contacts		В	с	D	E	F	Remarks	RoHS
	CL NO.	Signal	Ground	A	Б					nemarks	копо
FX11LA- 60S/ 6-SV(71)	573-0102-1-71	60	6	17.5	12	25	20.8	25.4	22.2		
FX11LA- 80S/ 8-SV(71)	573-0103-4-71	80	8	23.5	18	31	26.8	31.4	28.2	With guideposts	
FX11LA-100S/10-SV(71)	573-0104-7-71	100	10	29.5	24	37	32.8	37.4	34.2	with guideposis	
FX11LA-120S/12-SV(71)	573-0105-0-71	120	12	35.5	30	43	38.8	43.4	40.2		VEO
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		37.4	34.2	without guideposis	JIS
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



Note \square Cross-hatched portions, totaling n places, indicate the ground circuits.

- 2 Cross-hatched portions, 2 places on both sides, indicate the metal fittings.
- 3 The cross-hatched area 2 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.
- $\boxed{4}$ Not required in products without guideposts.

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 discontingent and the statistic structure of the structure of t



[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.
 - 3 Do not mount a part other than this product in the area of . Doing so will prevent the engagement of this and the mating connector.

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-RoH& produces berg, String product of the description of the context of the context of the second second



[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)
Rating	Rated voltage	50 V AC	Operating humidity range	Relative humidity 95% or less	Storage humidity range	40 to 70% (Note 2)
				(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 mΩ 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 $1\mu s$ or longer No damage, cracks, or parts looseness	Acceleration of 490 m/s 2 , 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 $^\circ\!\!C$, 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 $35°C \rightarrow 85°C \rightarrow 15$ 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 m Ω or less No damage, cracks, or parts looseness	50 times
9. 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		UL94V-0
Contonto	s Copper alloy Header Phosphor bronze Receptacle		Engagement Area: Gold plating of $0.1 \mu m$	
Contacts			Termination Area: Flash plating	
Ground plate	Phosphor bronze	Tin plating		
Metal fitting	Dhaanbar branza	Tin plating		
Metal plate	Phosphor bronze	Tin plating		

Ordering information

Type With Ground Plate $FX11$ $\#$ - \bigotimes P•••	$\frac{1}{3} \times \frac{1}{3} \times \frac{1}$
Type Without Ground Plate FX11 # - ※ P	$- \frac{SV}{6} \frac{0.5}{6} \frac{(* *)}{6}$
 Series name : FX11 Form Symbol A : With guide post B : Without guide post Number of contacts Type with ground plate Signal/Ground:60/6, 	 Connector type P : Header S : Receptacle Contact form SV : Straight SMT Product height Blank: Standard
80/8, 100/10 Type without ground Signal: 80, 100	0.5 : Standard + 0.5mm Image: Standard + 0.5mm Blank, (71): Tray packaging (Without pick-and-place tape) (21),(91): Embossed tape packaging (Without pick-and-place tape) (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 x for the provided of the context of the conte

Header with ground plate A±0.2 • 2.5mm stacking height (0.5) 0.5±0.05 0.2±0.05 5.05±0.2 2±0.2 .25±0.3 A tanihanana kanatan kanatan kanata and manufacture standarding (0.75) (0.75) (6) B±0.2 2.13±0.3 C±0.3

Unit : mm

Guidepost

Dort Number	CL No.	Number o	of contacts	•				F	F	Demerius	Dallo							
Part Number	CL No.	Signal	Ground	A	В	C			CD						E	F	Remarks	RoHS
FX11A- 60P/06-SV(71)	573-0502-0-71	60	6	17.5	12	22.6	18	19.4	25.5									
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		YES							
FX11B- 60P/06-SV(71)	573-0512-3-71	60	6	17.5	12	22.6		19.4	25.5		TES							
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									

(0.6)

2-(*\phi*0.8)

D±0.1

[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)



Note 1 Cross-hatched portions, totaling n places, indicate the ground circuits.

- $|2\rangle$ The cross-hatched area \boxtimes 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.
- $\boxed{3}$ Not required in products without guideposts.
- (4) Do not mount a part other than this product in the area of [...]. Doing so will prevent the engagement of this and the mating connector.

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 disconting the approximation of the product of t

Header with ground plate A±0.2 • 3mm stacking height (0.5) 0.5±0.05 0.2±0.05 2±0.2 5.05±0.2 5.25±0.3 A maniferration franchise franchise and 111411 and minime minime standard and a (0.75) ||| (0.75) (6) B±0.2 2.63±0.3 C±0.3

0.6)

Unit : mm

Guidepost

Dort Number		Number o	of contacts		P	0	D	F	F	Demente	Dello
Part Number	CL No.	Signal	Ground	A	В	С	D	E	F	Remarks	RoHS
FX11A- 60P/ 6-SV0.5(71)	573-0602-4-71	60	6	17.5	12	22.6	18	19.4	25.5		
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		VEO
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		

2-(*\phi*0.8)

D±0.1

[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)



Note \square Cross-hatched portions, totaling n places, indicate the ground circuits.

- $|2\rangle$ The cross-hatched area \bigotimes 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.
- $\boxed{3}$ Not required in products without guideposts.
- (4) Do not mount a part other than this product in the area of [...]. Doing so will prevent the engagement of this and the mating connector.

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	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		VEO	
ſ	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	—	37.4	34.2			

[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)



Note \square Cross-hatched portions, totaling n places, indicate the ground circuits.

- 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.
- $\boxed{4}$ Not required in products without guideposts.

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 discontinged and the engineering for the most current and accurate design information.



Davit Neurole au	Dort Number OL No		•		0	5	_	Demerilie	RoHS
Part Number CL No.		A		В	U	U	E	Remarks	копо
FX11A- 80P-SV(**)	573-0548-0-**	80	19.5	24.6	20	21.4	27.5	With guideposts	
FX11A-100P-SV(**)	573-0543-7-**	100	24.5	29.6	25	26.4	32.5	with guideposis	VEO
FX11B- 80P-SV(**)	573-0558-4-**	80	19.5	24.6		21.4	27.5	Without guideposts	YES
FX11B-100P-SV(**)	573-0553-0-**	100	24.5	29.6	-	26.4	32.5	will lout guideposis	

[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.

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 x refers berg Sprinting for discripting with discripting with the tender stating to the tender to tender



Part Number	t Number CL No.		Δ	В	6	П	Е	Remarks	RoHS
Fait Number CL NO.		Signal		D		D			110113
FX11A- 80P-SV0.5(**)	573-0648-5-**	80	19.5	24.6	20	21.4	27.5	With guideposts	
FX11A-100P-SV0.5(**)	573-0643-1-**	100	24.5	29.6	25	26.4	32.5	with guideposis	VEO
FX11B- 80P-SV0.5(**)	573-0658-9-**	80	19.5	24.6		21.4	27.5	Without guideposts	YES
FX11B-100P-SV0.5(**)	573-0653-5-**	100	24.5	29.6		26.4	32.5	vviiniour guideposis	

[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.

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 disconting the approximation of the product of t



Dort Number	Part Number CL No. Number of contacts			В	6	D	E	Remarks	RoHS
Part Number CL NO.		Signal	A	D		D		Tiemanos	NULIS
FX11A- 80S-SV(**)	573-0748-0-**	80	19.5	27	22.8	27.4	24.2	With guideposts	
FX11A-100S-SV(**)	573-0743-6-**	100	24.5	32	27.8	32.4	29.2	with guideposts	VEO
FX11B- 80S-SV(**)	573-0758-3-**	80	19.5	27		27.4	24.2	Without guideposts	YES
FX11B-100S-SV(**)	573-0753-0-**	100	24.5	32	—	32.4	29.2	without guideposis	

[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.

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Embossed Carrier Tape Dimensions



					Uni	it : mm	
Insertion Connector	Α	В	С	D	E	F	
FX11L#- 60P/ 6-SV	20.0	10 1	4.4		FOF		
FX11L#- 80P/ 8-SV	20.2	40.4	44	45.5	50.5		
FX11L#-100P/10-SV	26.2	52.4	56	59	64		
FX11L#-120P/12-SV	20.2	52.4	50	59	04	1 00	
FX11L#- 68P -SV	20.0	10.1	4.4		FOF	1.98	
FX11L#- 92P -SV	20.2	40.4	44	45.5	50.5		
FX11L#-116P -SV	26.0	F0 4	FG	50	64		
FX11L#-140P -SV	26.2	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	50.5		
FX11 #-100P/10-SV	26.2	52.4	56	59	64	2.48	
FX11 #- 80P -SV	20.0	10.4	4.4	45 5	FOF		
FX11 #-100P -SV	20.2	40.4	44	45.5	50.5		
FX11 #- 60P/ 6-SV0.5	20.0	10.1	4.4		FOF		
FX11 #- 80P/ 8-SV0.5	20.2	40.4	44	45.5	50.5		
FX11 #-100P/10-SV0.5	26.2	52.4	56	59	64	2.98	
FX11 #- 80P -SV0.5		10.1	4.4	1 E E	FOF		
FX11 #-100P -SV0.5	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



A236 **HS**

				_	Uni	t : 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	06.0	52.4	FG	50	64	
FX11L#-120S/12-SV	26.2	JZ.4	56	59	04	~
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	00.0	52.4	FC	50	64	
FX11L#-140S -SV	26.2	JZ.4	56	59	64	
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	10.1	4.4	15 F	FOF	
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.

Recommended Temperature Profile



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

Washing Conditions

Organic Solvent Washing

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

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.

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.



Mouser Electronics

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Hirose Electric:

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