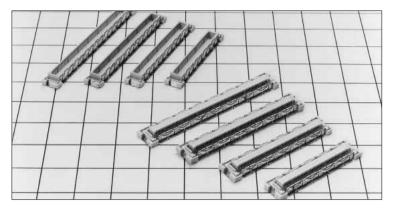
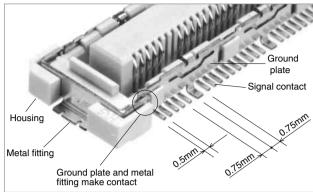
0.5mm Pitch Connectors with Ground Plate for Board-to-Board Connections

FX10 Series





Features

1. 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.

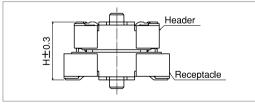
2. 10 Signal:1 Ground Arrangement

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.

- 3. 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.
- 4. Suited to High-Density Applications The signal contact pitch of 0.5 mm produces a smaller connector utilizing less board area for mounting.
- 5. High contact reliability Effective mating length is 1.1 mm for signal contacts.
- 6. Optional Ground Plate

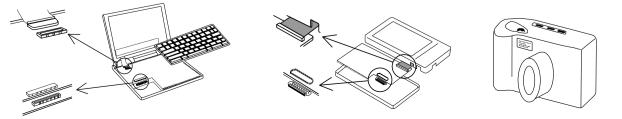
An alternate style without the ground plate is available. The space provided by the ground plate removal has been filled with additional signal contacts.

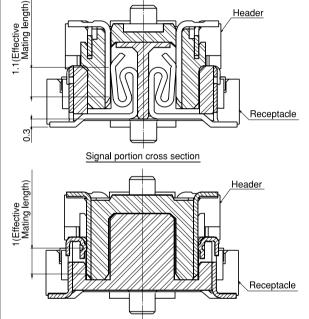
7. Board-To-Board Dimensions of 4mm and 5 mm Are Available



Applications

Notebook computers, PDA, and other miniature electronic equipment.







Stack Height

Cross-Section of Mating

Headers Receptacles	FX10#-*P/*-SV	FX10#-*P/*-SV1
FX10#-*S/*-SV	4mm	5mm

•Without ground plate

Headers Receptacles	FX10-*P-SV	FX10-*P-SV1
FX10-*S-SV	4mm	5mm

■Product Specifications

	-									
Rating		0.3 A (Note 1) 50 V AC	Operating temperature range Operating humidity range	-55 to 85℃ Relative humidity 95% or less (No condensation)		Storage temperature range Storage humidity range	-10 to +60°C (Note 1) 40 to 70% (Note 1)			
Item Requirements						Conditions				
1. Insula	ation resistance	e 100 MΩ or gr	•		Measured at 10					
	ge resistance	-	or breakdown			ied for one minute				
	act resistance				Measured at 10					
		No electrical	discontinuity for 1µs or greater		Frequency: 10 to 55 Hz, amplitude of 0.75 mm in 3 directions, 10					
4. Vibra	ition	No damage, cracks, or parts looseness								
5 Shaa		No electrical	discontinuity for 1µs or longer		Acceleration of	490 m/s ² , 11 ms duration, si	ne half-wave			
5. Shoc	κ	No damage,	cracks, or parts looseness		waveform, for 3 cycles in the both directions of each of the 3 axes					
6. Dam	p heat	Contact resis	tance of 70 mΩ or less, insulation	on resistance of	f Temperature of 40°C, humidity of 90 to 95%, duration 96 h					
(Stea	idy state)	100 MΩ or gr	eater, no damage, cracks, or pa	arts looseness	Temperature d		%, duration 96 n			
7 Tom	perature cycle	Contact resis	tance of 70 m Ω or less, insulation	on resistance of	Temperature: -	55° C \rightarrow 15 to 35° C \rightarrow 85° C \rightarrow	15 to 35℃			
7. Temp		100 MΩ or gr	eater, no damage, cracks, or pa	arts looseness	Time: 30 min	\rightarrow 2 to 3 min. \rightarrow 30 min. \rightarrow 2 t	to 3 min. for 5 cycles			
8. Dural	bility	Contact resis	ntact resistance of 70 mΩ or less							
0. Durai	bility	No damage,	mage, cracks, or parts looseness			50 times				
9. Resis	istance to No melting of resin portion which affects performance				Reflow: At the recommended temperature profile					
solde	ering heat			Torritorio	Soldering iron t	temperature: 360°C for 5 seco	onds			

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 suited to the non-conducting condition following board assembly.

Note 2: The aforementioned specifications are representative of this series. For information on specific parts, confirm with Sales Office.

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.

Materials

Part	Material		Process	Notes
Insulator	LCP		UL94V-0	
		Header	Engagement Area: Gold plating of 0.1µm	
Contosta	Dhoonhor bronzo	пеацег	Tenmination Area: Tin plating	
Contacts	Phosphor bronze	Decenteria		
		Receptacle	Termination Area: Flash plating	
Ground plate	Ground plate Phosphor bronze		Tin plating	
Metal fitting	Phosphor bronze		Tin plating	

FX10 # - * P / * - SV 1 (* *)

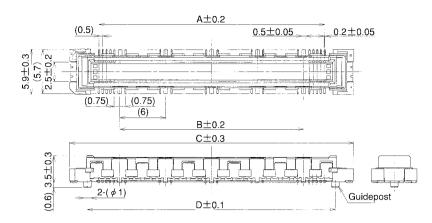
Product Number Configuration

0 2	4 6 6 7
	3
Series name: FX10	 Contact form
Ø Form Symbol	SV: Straight SMT
A: With guide post	Product height
B: Without guide post	Blank: Standard
Number of contacts	1 : Standard + 1mm
With ground plate	Packaging classification
Signal/Ground: 80/8, 100/10, 120/1	12, Blank(71): Tray packaging
140/14	(21), (91): Embossed tape packaging
Without ground plate	
Signal: 96, 120, 144, 168	
Connector type	
P: Header	
S: Receptacle	

Headers with ground plate

•4mm Stacking Height





Unit: mm

Part No.	CL No.	Number of	of Contacts	А	В	с	D	E	F	Remarks	RoHS
Fall NO.	GL NO.	Signal	Ground	A	Б				Г	Remarks	RUNS
FX10A- 80P/ 8-SV(71)	CL570-0001-5-71	80	8	23.5	18	31.1	26.4	31.5	28.3		
FX10A-100P/10-SV(71)	CL570-0002-8-71	100	10	29.5	24	37.1	32.4	37.5	34.3	With guideposts	
FX10A-120P/12-SV(71)	CL570-0003-0-71	120	12	35.5	30	43.1	38.4	43.5	40.3	with guideposts	
FX10A-140P/14-SV(71)	CL570-0004-3-71	140	14	41.5	36	49.1	44.4	49.5	46.3		YES
FX10B- 80P/ 8-SV(71)	CL570-0021-2-71	80	8	23.5	18	31.1	—	31.5	28.3		TES
FX10B-100P/10-SV(71)	CL570-0022-5-71	100	10	29.5	24	37.1	—	37.5	34.3	Mithout guidenaata	
FX10B-120P/12-SV(71)	CL570-0023-8-71	120	12	35.5	30	43.1	—	43.5	40.3	Without guideposts	
FX10B-140P/14-SV(71)	CL570-0024-0-71	140	14	41.5	36	49.1	—	49.5	46.3		

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

(71): Tray packaging

(91): Embossed tape packaging

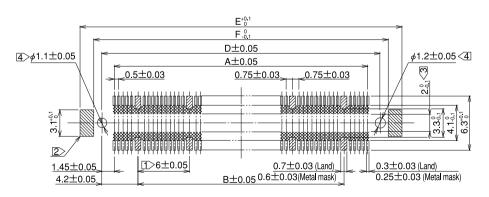
Note 1: There is no polarity in terms of board mounting for this product.

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

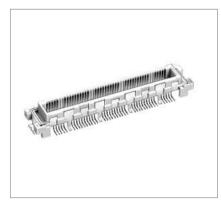


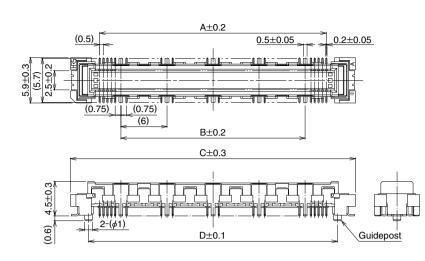
Note 1 Cross-hatched portions, totaling n places, indicate the ground circuits.

- $\boxed{2}$ Cross-hatched portions, 2 places on both sides, indicate the metal fittings.
- $\boxed{3}$ The cross-hatched area $\boxed{8}$ 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.

Headers with ground plate

●5mm Stacking Height





Unit: mm

Dort No.	Part No. CL No.		of Contacts	А	В	С	D	E	F	Remarks	RoHS
Fait NO.	GL NO.	Signal	Ground	A	Б				Г	Remarks	RUNS
FX10A- 80P/ 8-SV1(71)	CL570-0101-0-71	80	8	23.5	18	31.1	26.4	31.5	28.3		
FX10A-100P/10-SV1(71)	CL570-0102-2-71	100	10	29.5	24	37.1	32.4	37.5	34.3	With guideposts	
FX10A-120P/12-SV1(71)	CL570-0103-5-71	120	12	35.5	30	43.1	38.4	43.5	40.3	With guideposts	
FX10A-140P/14-SV1(71)	CL570-0104-8-71	140	14	41.5	36	49.1	44.4	49.5	46.3		
FX10B- 80P/ 8-SV1(71)	CL570-0121-7-71	80	8	23.5	18	31.1	—	31.5	28.3		YES
FX10B-100P/10-SV1(71)	CL570-0122-0-71	100	10	29.5	24	37.1	—	37.5	34.3	Without guideneete	
FX10B-120P/12-SV1(71)	CL570-0123-2-71	120	12	35.5	30	43.1	—	43.5	40.3	Without guideposts	
FX10B-140P/14-SV1(71)	CL570-0124-5-71	140	14	41.5	36	49.1	—	49.5	46.3		

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

(71): Tray packaging

(91): Embossed tape packaging

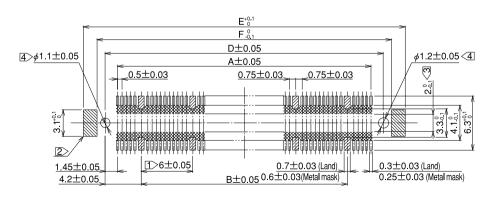
Note 1: There is no polarity in terms of board mounting for this product.

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.)

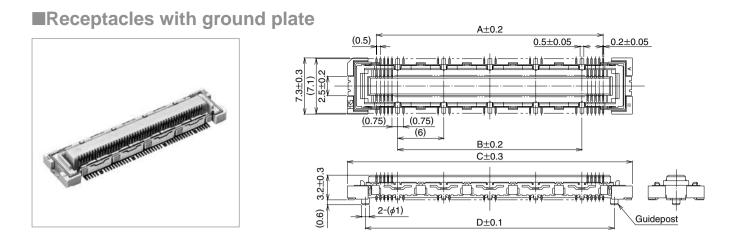
Recommended Land Pattern Dimensions (Metal Mask Dimensions)

Recommended metal mask thickness: 0.15 mm



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

- $\boxed{2}$ Cross-hatched portions, 2 places on both sides, indicate the metal fittings.
- $\boxed{3}$ The cross-hatched area $\boxed{8}$ 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.



Unit: mm

Part No.	CL No.	Number of	of Contacts	A	В	с	D	E	F	Remarks	RoHS
Fall NO.	GL NO.	Signal	Ground	A					Г	Remarks	RUNS
FX10A- 80S/ 8-SV(71)	CL570-0201-4-71	80	8	23.5	18	31.1	26.4	31.5	28.3		
FX10A-100S/10-SV(71)	CL570-0202-7-71	100	10	29.5	24	37.1	32.4	37.5	34.3	With guidenests	
FX10A-120S/12-SV(71)	CL570-0203-0-71	120	12	35.5	30	43.1	38.4	43.5	40.3	With guideposts	
FX10A-140S/14-SV(71)	CL570-0204-2-71	140	14	41.5	36	49.1	44.4	49.5	46.3		YES
FX10B- 80S/ 8-SV(71)	CL570-0221-1-71	80	8	23.5	18	31.1	—	31.5	28.3		15
FX10B-100S/10-SV(71)	CL570-0222-4-71	100	10	29.5	24	37.1	—	37.5	34.3	Without guideposts	
FX10B-120S/12-SV(71)	CL570-0223-7-71	120	12	35.5	30	43.1	—	43.5	40.3		
FX10B-140S/14-SV(71)	CL570-0224-0-71	140	14	41.5	36	49.1		49.5	46.3		

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

(71): Tray packaging

(91): Embossed tape packaging

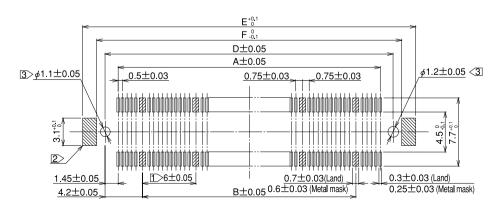
Note 1: There is no polarity in terms of board mounting for this product.

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



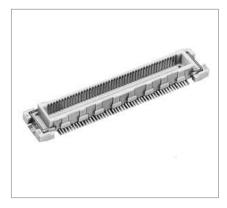
Note 1 Cross-hatched portions, totaling n places, indicate the ground circuits.

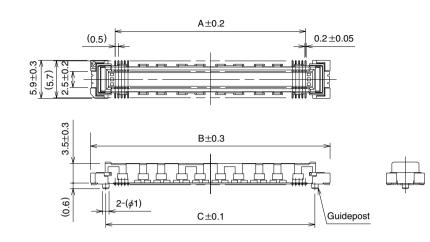
2 Cross-hatched portions, 2 places on both sides, indicate the metal fittings.

 $\boxed{3}$ Not required in products without guideposts.

Headers without ground plate

•4mm Stacking Height





Unit: mm

Dort No.	Part No. CL No.		А	D	вС	D	F	Remarks	RoHS
Fait NO.	GL NO.	Signal	A	Б		U		Remarks	RUNS
FX10A- 96P-SV(71)	CL570-0041-0-71	96	23.5	31.1	26.4	31.5	28.3		
FX10A-120P-SV(71)	CL570-0042-2-71	120	29.5	37.1	32.4	37.5	34.3	With guideposts	
FX10A-144P-SV(71)	CL570-0043-5-71	144	35.5	43.1	38.4	43.5	40.3	With guideposts	
FX10A-168P-SV(71)	CL570-0044-8-71	168	41.5	49.1	44.4	49.5	46.3		YES
FX10B- 96P-SV(71)	CL570-0051-3-71	96	23.5	31.1	—	31.5	28.3		15
FX10B-120P-SV(71)	CL570-0052-6-71	120	29.5	37.1	—	37.5	34.3	Without guideposts	
FX10B-144P-SV(71)	. ,		35.5	43.1	—	43.5	40.3		
FX10B-168P-SV(71)	CL570-0054-1-71	168	41.5	49.1		49.5	46.3		

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

(71): Tray packaging

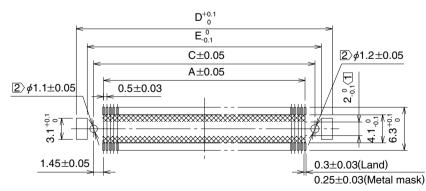
(91): Embossed tape packaging

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)

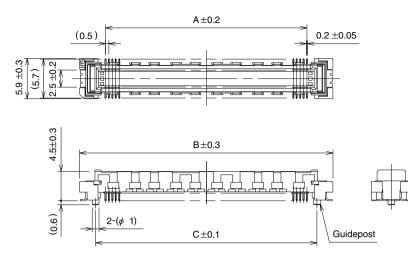


- Note 1 The cross-hatched area inside the SMT land may come into contact with the connector contacts and thus care should be taken that the pattern does not extend beyond the SMT land width.
 - $\boxed{2}$ Not required in products without guideposts.

Headers without ground plate

●5mm Stacking Height





Unit: mm

Part No	Part No. CL No.		А	В	С	D	E	Remarks	RoHS
Tarrio.	OL NO.	Signal	Λ	D				Remarks	
FX10A- 96P-SV1(71)	CL570-0141-4-71	96	23.5	31.1	26.4	31.5	28.3		
FX10A-120P-SV1(71)	CL570-0142-7-71	120	29.5	37.1	32.4	37.5	34.3	With guideneete	
FX10A-144P-SV1(71)	CL570-0143-0-71	144	35.5	43.1	38.4	43.5	40.3	With guideposts	- YES
FX10A-168P-SV1(71)	CL570-0144-2-71	168	41.5	49.1	44.4	49.5	46.3		
FX10B- 96P-SV1(71)	CL570-0151-8-71	96	23.5	31.1	—	31.5	28.3		153
FX10B-120P-SV1(71)	CL570-0152-0-71	120	29.5	37.1	—	37.5	34.3	Without guideneete	
FX10B-144P-SV1(71)	CL570-0153-3-71	144	35.5	43.1	—	43.5	40.3	Without guideposts	
FX10B-168P-SV1(71)	CL570-0154-6-71	168	41.5	49.1	_	49.5	46.3		

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

(71): Tray packaging

(91): Embossed tape packaging

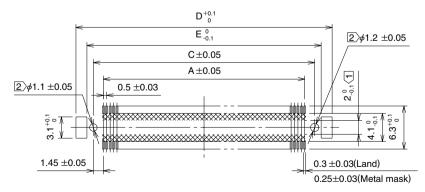
Note 1: There is no polarity in terms of board mounting for this product.

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

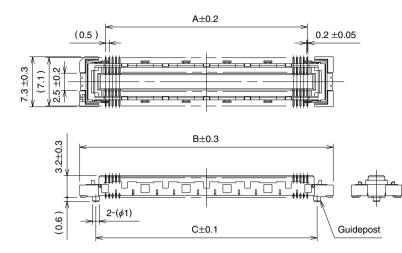


Note 1 The cross-hatched area inside the SMT land may come into contact with the connector contacts and thus care should be taken that the pattern does not extend beyond the SMT land width.

 $\boxed{2}$ Not required in products without guideposts.

Receptacles without ground plate





Unit: mm

Part No.	CL No.	Number of Contacts	А	В	С	D	F	Remarks	RoHS
Fait NO.	GL NO.	Signal	A	D				Remarks	RUNS
FX10A- 96S-SV(**)	CL570-0241-9-**	96	23.5	31.1	26.4	31.5	28.3		
FX10A-120S-SV(**)	CL570-0242-1-**	120	29.5	37.1	32.4	37.5	34.3	With guideposts	
FX10A-144S-SV(**)	CL570-0243-4-**	144	35.5	43.1	38.4	43.5	40.3	With guideposts	
FX10A-168S-SV(**)	CL570-0244-7-**	168	41.5	49.1	44.4	49.5	46.3		YES
FX10B- 96S-SV(**)	CL570-0251-2-**	96	23.5	31.1	—	31.5	28.3		153
FX10B-120S-SV(**)	CL570-0252-5-**	120	29.5	37.1	—	37.5	34.3	Without guideposts	
FX10B-144S-SV(**)	CL570-0253-8-**	144	35.5	43.1	—	43.5	40.3		
FX10B-168S-SV(**)	CL570-0254-0-**	168	41.5	49.1	—	49.5	46.3		

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

Blank: Tray packaging

(21) : Embossed tape packaging

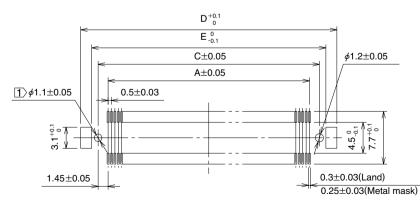
Note 1: There is no polarity in terms of board mounting for this product.

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)

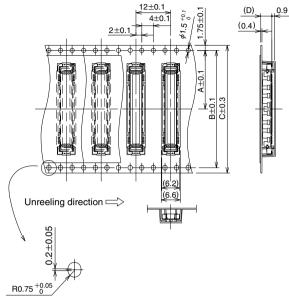
Recommended metal mask thickness: 0.15 mm



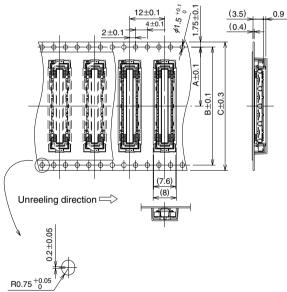
Note $\boxed{1}$ Not required in products without guideposts.

Embossed Carrier Tape Dimensions

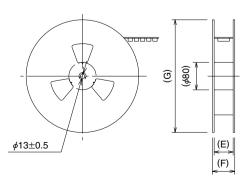
Headers



Receptacles



Reel Dimensions



					-			
Insertion Connec	ctor	А	В	С	D	Е	F	G
FX10#- 80P/ 8-	SV1	20.2	40.4	44		45.5	50.5	
FX10#-100P/10-	SV1	26.2	52.4	56		59	64	
FX10#-120P/12-	SV1	20.2	52.4	90		59	04	
FX10#-140P/14-	SV1	34.2	68.4	72	3.8	76.5	81.5	220
FX10#-196P/ -	SV1	20.2	40.4	44	3.0	45.5	50.5	330
FX10#-120P/ -	SV1	26.2	52.4	56		50	64	
FX10#-144P/ -	SV1	20.2	52.4	56		59	04	
FX10#-168P/ -	SV1	34.2	68.4	72		76.5	81.5	
FX10#- 80P/ 8-	SV1	20.2	40.4	44		45.5	50.5	
FX10#-100P/10-	SV1	26.2	52.4	56		59	64	
FX10#-120P/12-	SV1	20.2	52.4	50		59	04	
FX10#-140P/14-	SV1	34.2	68.4	72	4.8	76.5	81.5	270
FX10#-196P/ -	SV1	20.2	40.4	44	4.0	45.5	50.5	370
FX10#-120P/ -	SV1	26.2	52.4	56		59	64	
FX10#-144P/ -	SV1	20.2	52.4	56		- 59	04	
FX10#-168P/ -	SV1	34.2	68.4	72		76.5	81.5	

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

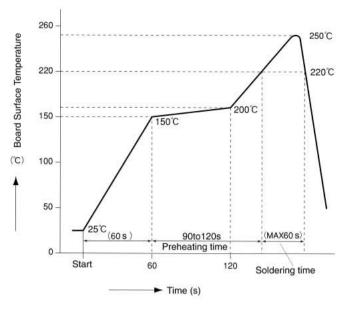
					Uni	t: mm
Insertion Connector	A	В	С	Е	F	G
FX10#- 80P/ 8-SV1	20.2	40.4	44	45.5	50.5	
FX10#-100P/10-SV1	26.2	52.4	56	59	64	
FX10#-120P/12-SV1	20.2	52.4	90	59	04	
FX10#-140P/14-SV1	34.2	68.4	72	76.5	81.5	330
FX10#-196P/ -SV1	20.2	40.4	44	45.5	50.5	330
FX10#-120P/ -SV1	26.2	52.4	56	59	64	
FX10#-144P/ -SV1	20.2	52.4	00	59	04	
FX10#-168P/ -SV1	34.2	68.4	72	76.5	81.5	

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

Unit: mm

A220 **HS**

Recommended Temperature Profile



HRS test Conditions

Test board Glass epoxy	y 161mm $ imes$ 100mm $ imes$ 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.

HRS A221

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

The effective mating length of this product is 1.1 mm for the signal portion and 1 mm for the ground portion. The creepage of the header and receptacle at the time of mating should be within 0.5 mm of the completely mating condition.

2. Retension of Boards

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

3. 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.

4. Miscellaneous

Note that excessive twisting while inserting or withdrawing connectors will cause damage.

Connector width	
direction	Connector length direction
Board	Board

The shade of the molded items may vary somewhat depending on the manufacturing lot; however, this does not affect performance.

10⁺Gbps 0.5mm pitch Stacking Connectors

FX10 Series Electrical Interface for the OIF 100G Long-Haul DWDM Transmission Module (MSA-100GLH)



<figure>

Signal Integrity Features

Insertion-Loss-to-Crosstalk-Ratio(ICR)

The insertion-loss-to-crosstalk-ratio (ICR) with fiveaggressor differential FEXT meets the extrapolated IEEE 802.3ap specification for 10⁺Gbps.

Differential Impedance

The differential impedance is within 100 +/- 10 ohms at 30ps rise time (20% to 80%).

Stack Height

With ground plate

Headers Receptacles	FX10#-*P/*-SV	FX10#-*P/*-SV1
FX10#-*S/*-SV	4mm	5mm

•Without ground plate

Headers Receptacles	FX10#-*P-SV	FX10-*P-SV1	FX10#-168P-SV2	FX10#-168P-SV3	FX10#-168P-SV4
FX10#-*S-SV	4mm	5mm	6mm	7mm	8mm

Mechanical Features

- 0.5mm Pitch
- Stacking Height : 4 ~ 8mm

Number of Contacts

With ground plate type : 80 / 100 / 120 / 140 Without ground plate type : 96 / 120 / 144 / 168

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.

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.

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.

Suited to High-Density Applications

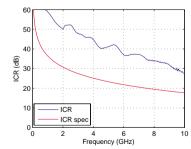
The signal contact pitch of 0.5 mm produces a smaller connector utilizing less board area for mounting.

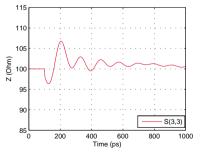
High contact reliability

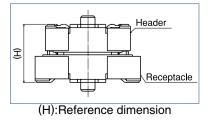
Effective mating length is 1.1 mm for signal contacts.

• 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.







The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. FX10 Series 10+Gbps 0.5mm pitch Stacking Connectors

MSA-100GLH Electrical Interface



■Product Specifications (Rating)

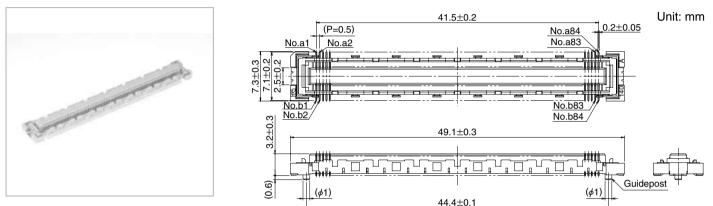
Rating	Rated current	Note 1	Operating temperature range	-55 to 85℃	Storage temperature range	-40 to +60℃ (Note 2)
nauny	Rated voltage	50 V AC	Operating humidity range	Relative humidity 95% max (No condensation)	Storage humidity range	40 to 70% (Note 2)
	naleu vollaye	50 V AC		(,		(

Note 1: Refer to FX10-168pin derating curves from test reports TR570E-20587.

Note 2: 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 suited to the non-conducting condition following board assembly.

Note 3: Other information are shown in General Product Specifications.

Receptacles without ground plate



Part No.	CL No.	Number of Contacts Signal	Remarks
FX10A-168S-SV (**)	570-0244-7-**	169	With guideposts
FX10B-168S-SV (**)	570-0254-0-**	168	Without guideposts

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

(83): Embossed tape packaging / AuP 0.76μm (93): Tray packaging / AuP 0.76μm

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

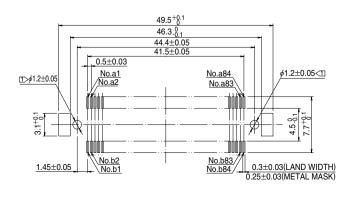
Note 2: The coplanarity of this product's SMT leads is 0.1 mm or less.

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

Note 4: Using multiple connectors between identical boards is not recommended.

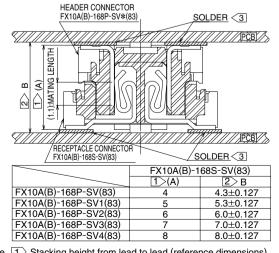
Recommended Land Pattern Dimensions(Metal Mask Dimensions)

Recommended metal mask thickness: 0.15mm



Note 1>Not required in products without guideposts.

Board-to-Board Distance

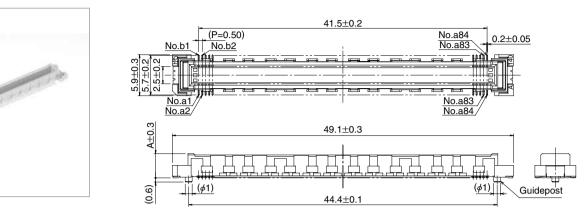


Note 1 Stacking height from lead to lead (reference dimensions) 2 Board-to-board distance 3 Stencil (metal mask) shall be based on Hirose's recommended aperture and thickness.

MSA-100GLH Electrical Interface



■Headers without ground plate



Unit:	mm
Ornit.	

Part No.	CL No.	Number of Contacts	А	Quantity/Reel	Remarks
Tan No.	OL NO.	Signal	~	(Note 3)	Tiemarks
FX10A-168P-SV (**)	570-0044-8-**		3.5	1,000	
FX10A-168P-SV1 (**)	570-0144-2-**		4.5	1,000	
FX10A-168P-SV2 (**)	570-0302-1-**		5.25	900	With guideposts
FX10A-168P-SV3 (**)	570-0304-7-**		6.25	800	
FX10A-168P-SV4 (**)	570-0306-2-**	168	7.25	700	
FX10B-168P-SV (**)	570-0054-1-**	100	3.5	1,000	
FX10B-168P-SV1 (**)	570-0154-6-**		4.5	1,000	
FX10B-168P-SV2 (**)	570-0303-4-**		5.25	900	Without guideposts
FX10B-168P-SV3 (**)	570-0305-0-**		6.25	800	
FX10B-168P-SV4 (**)	570-0307-5-**		7.25	700	

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

(83): Embossed tape packaging / AuP 0.76μm (93): Tray packaging / AuP 0.76μm

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

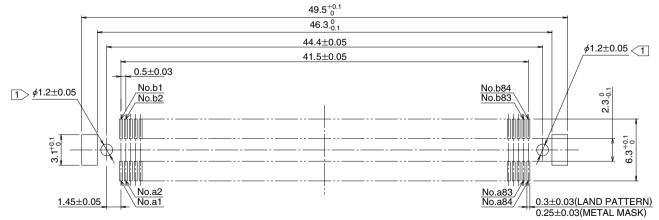
Note 2: The coplanarity of this product's SMT leads is 0.1 mm or less.

Note 3: Please order embossed tape packaged items by the reel.

Note 4: Using multiple connectors between identical boards is not recommended.

Recommended Land Pattern Dimensions (Metal Mask Dimensions)

Recommended metal mask thickness: 0.15 mm



Note 1 Not required in products without guideposts.

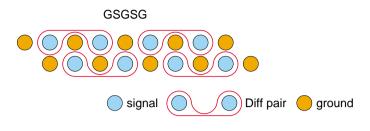
HS 3

The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. **FX10 Series 10**⁺**Gbps 0.5mm pitch Stacking Connectors**

Signal integrity

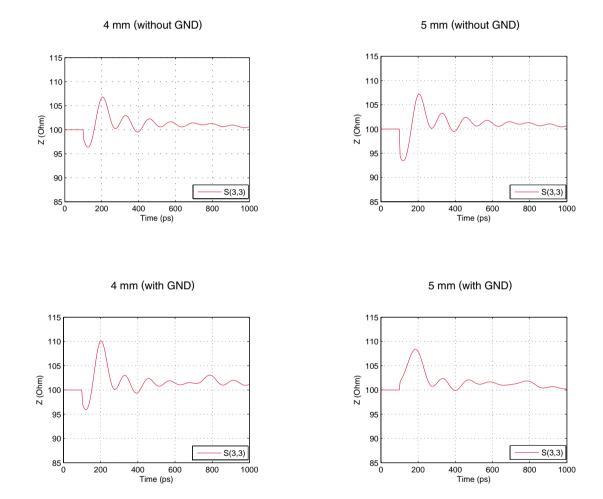
Pin assignment

To match 100 ohm differential impedance and to reduce crosstalk, a staggered GSGSG pin assignment is recommended. (G=ground and S=signal)



Impedance

The differential impedance is 100 +/- 10 ohm for FX10 at 30 ps rise time (20% to 80%).

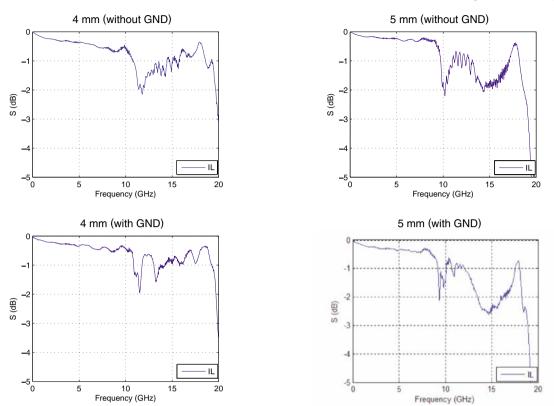


• Propagation delay

The propagation delay is 62 and 67 ps for FX10 of 4mm and 5mm height (with and without GND), respectively.

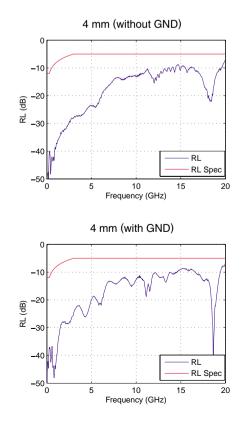
Insertion loss

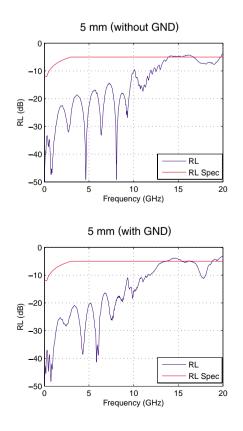
The differential insertion loss crosses 1 dB at 10.8 and 9.2 GHz for FX10 of 4mm and 5mm height, respectively.



Return loss

The differential return loss meets the IEEE 802.3ap specification to 20⁺ and 13.5 GHz for FX10 of 4mm and 5mm height, respectively.

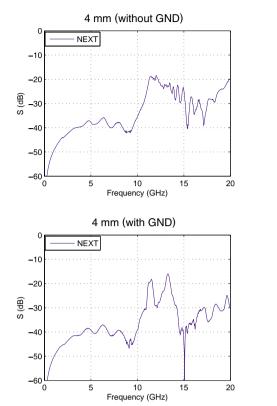


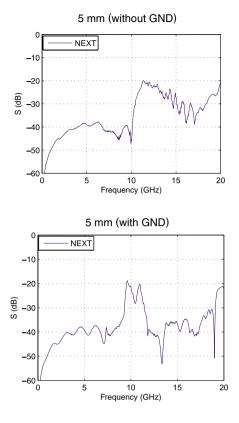


The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. FX10 Series 10+Gbps 0.5mm pitch Stacking Connectors

Near-end crosstalk (NEXT)

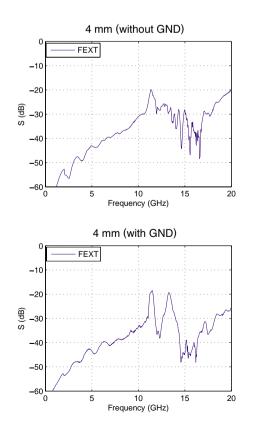
The staggered GSGSG pin assignment results in low differential NEXT between neighboring pairs.

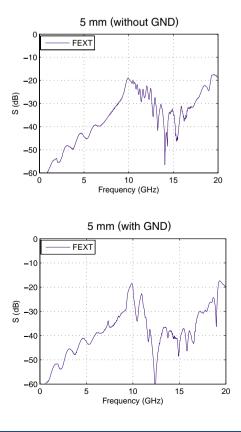




• Far-end crosstalk (FEXT)

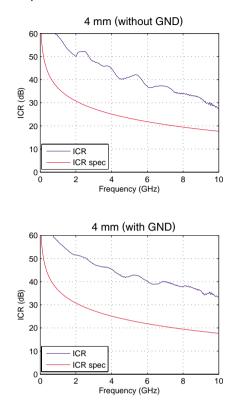
The staggered GSGSG pin assignment results in low differential FEXT between neighboring pairs.

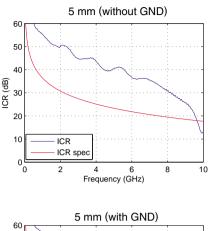


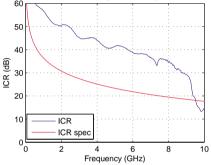


• Insertion-loss-to-crosstalk ratio (ICR)

The insertion-loss-to-crosstalk ratio (ICR) with five-aggressor differential FEXT meets the extrapolated IEEE 802.3ap specification to 10⁺ Gbps.







■General Product Specifications

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

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

Note 1: Includes temperature rise caused by current flow.

Note 2: 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 suited to the non-conducting condition following board assembly.

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.

Materials

Part	Material		Process	
Insulator	LCP		Beige	
		Hoodor	Contact Area: Gold plating	
Cartasta	Dhaanbar branna	Header	Lead Area: Tin plating	
Contacts	Phosphor bronze		Contact Area: Gold plating]
		Receptacle	Lead Area: Flash plating	
Ground plate	Phosphor bronze		Tin plating	
Metal fitting	Phosphor bronze	Tin plating		

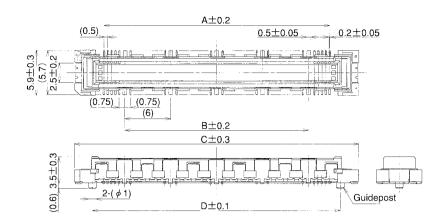
■Ordering Information

<u>FX10</u> # - * P / @	* - <u>SV</u> <u>1</u> (* *)			
Series name : FX10	4 Connector type			
Ø Form symbol	P : Header			
A : With guide post	S : Receptacle			
B : Without guide post	6 Contact form			
Output States Output States	SV : Straight SMT			
With ground plate	6 Product height			
Signal/Ground: 80/8, 100/10, 120/12,	Blank : Standard			
140/14	1 : Standard + 1mm			
Without ground plate	Packaging classification			
Signal: 96, 120, 144, 168	Blank, (71) : Tray packaging			
	(21), (91): Embossed tape packaging			

■Headers with ground plate

•4mm Stacking Height





Unit: mm

Part No.	CL No.	Number o	f Contacts	А	В	с	D	Е	F	Remarks
Fait NO.	GL NO.	Signal	Ground	A	Б				F	nemarks
FX10A- 80P/ 8-SV(**)	CL570-0001-5-**	80	8	23.5	18	31.1	26.4	31.5	28.3	
FX10A-100P/10-SV(**)	CL570-0002-8-**	100	10	29.5	24	37.1	32.4	37.5	34.3	With guidenasta
FX10A-120P/12-SV(**)	CL570-0003-0-**	120	12	35.5	30	43.1	38.4	43.5	40.3	With guideposts
FX10A-140P/14-SV(**)	CL570-0004-3-**	140	14	41.5	36	49.1	44.4	49.5	46.3	
FX10B- 80P/ 8-SV(**)	CL570-0021-2-**	80	8	23.5	18	31.1	_	31.5	28.3	
FX10B-100P/10-SV(**)	CL570-0022-5-**	100	10	29.5	24	37.1		37.5	34.3	Mithout guideneata
FX10B-120P/12-SV(**)	CL570-0023-8-**	120	12	35.5	30	43.1	_	43.5	40.3	Without guideposts
FX10B-140P/14-SV(**)	CL570-0024-0-**	140	14	41.5	36	49.1		49.5	46.3	

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

(71): Tray packaging

(91): Embossed tape packaging

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

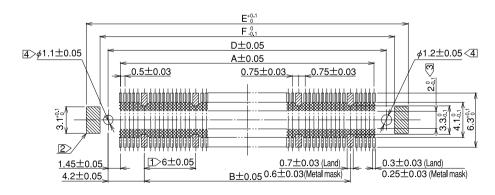
Note 2: The coplanarity of this product's SMT leads is 0.1mm or less.

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

Note 4: Using multiple connectors between identical boards is not recommended.

Recommended Land Pattern Dimensions (Metal Mask Dimensions)

Recommended metal mask thickness: 0.15 mm



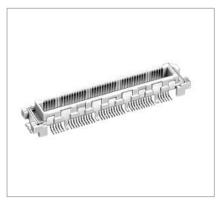
Note 1 Cross-hatched portions, totaling n places, indicate the ground circuits.

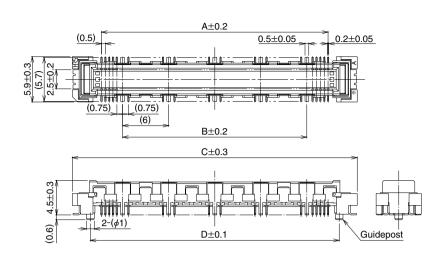
- $\boxed{2}$ Cross-hatched portions, 2 places on both sides, indicate the metal fittings.
- $\boxed{3}$ The cross-hatched area $\boxed{3}$ inside the SMT land may come into contact with the connector contacts
 - and thus care should be taken that the pattern does not extend beyond the SMT land width.
- $\fbox{4}$ 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. **FX10 Series 10**+**Gbps 0.5mm pitch Stacking Connectors**

■Headers with ground plate

•5mm Stacking Height





U	n	it:	m	۱r	n

Part No.	CL No.	Number o	f Contacts	А	В	с	D	Е	F	Remarks
Tarrivo.	OE NO.	Signal	Ground	~	D		D	L	•	Tiemarko
FX10A- 80P/ 8-SV1(**)	CL570-0101-0-**	80	8	23.5	18	31.1	26.4	31.5	28.3	
FX10A-100P/10-SV1(**)	CL570-0102-2-**	100	10	29.5	24	37.1	32.4	37.5	34.3	With guideposta
FX10A-120P/12-SV1(**)	CL570-0103-5-**	120	12	35.5	30	43.1	38.4	43.5	40.3	With guideposts
FX10A-140P/14-SV1(**)	CL570-0104-8-**	140	14	41.5	36	49.1	44.4	49.5	46.3	
FX10B- 80P/ 8-SV1(**)	CL570-0121-7-**	80	8	23.5	18	31.1		31.5	28.3	
FX10B-100P/10-SV1(**)	CL570-0122-0-**	100	10	29.5	24	37.1		37.5	34.3	Mithout quidopooto
FX10B-120P/12-SV1(**)	CL570-0123-2-**	120	12	35.5	30	43.1		43.5	40.3	Without guideposts
FX10B-140P/14-SV1(**)	CL570-0124-5-**	140	14	41.5	36	49.1		49.5	46.3	

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

(71): Tray packaging

(91): Embossed tape packaging

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

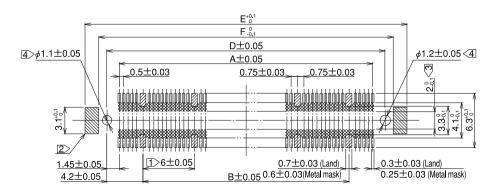
Note 2: The coplanarity of this product's SMT leads is 0.1 mm or less.

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

Note 4: Using multiple connectors between identical boards is not recommended.

Recommended Land Pattern Dimensions (Metal Mask Dimensions)

Recommended metal mask thickness: 0.15 mm



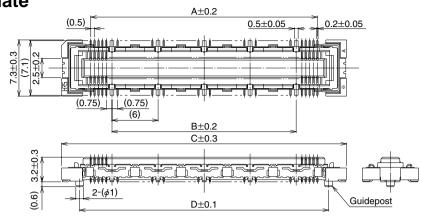
Note 1>Cross-hatched portions, totaling n places, indicate the ground circuits.

- 2 Cross-hatched portions, 2 places on both sides, indicate the metal fittings.
- 3 The cross-hatched area 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. FX10 Series 10+Gbps 0.5mm pitch Stacking Connectors

■Receptacles with ground plate





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										Offit: Hilli
Part No.	CL No.	Number of	of Contacts	А	В	с	D	E	F	Remarks
T att NO.	OL NO.	Signal	Ground	~	D			L	1	nemarks
FX10A- 80S/ 8-SV(**)	CL570-0201-4-**	80	8	23.5	18	31.1	26.4	31.5	28.3	
FX10A-100S/10-SV(**)	CL570-0202-7-**	100	10	29.5	24	37.1	32.4	37.5	34.3	With guideposta
FX10A-120S/12-SV(**)	CL570-0203-0-**	120	12	35.5	30	43.1	38.4	43.5	40.3	With guideposts
FX10A-140S/14-SV(**)	CL570-0204-2-**	140	14	41.5	36	49.1	44.4	49.5	46.3	
FX10B- 80S/ 8-SV(**)	CL570-0221-1-**	80	8	23.5	18	31.1		31.5	28.3	
FX10B-100S/10-SV(**)	CL570-0222-4-**	100	10	29.5	24	37.1		37.5	34.3	Mithout quidopooto
FX10B-120S/12-SV(**)	CL570-0223-7-**	120	12	35.5	30	43.1		43.5	40.3	Without guideposts
FX10B-140S/14-SV(**)	CL570-0224-0-**	140	14	41.5	36	49.1		49.5	46.3	
		7								

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

(71): Tray packaging

(91): Embossed tape packaging

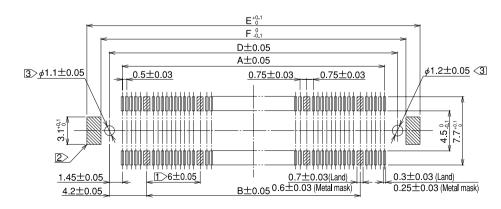
Note 1: There is no polarity in terms of board mounting for this product.

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



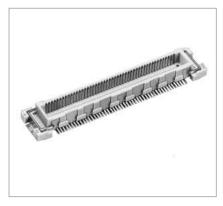
Note 1 Cross-hatched portions, totaling n places, indicate the ground circuits.

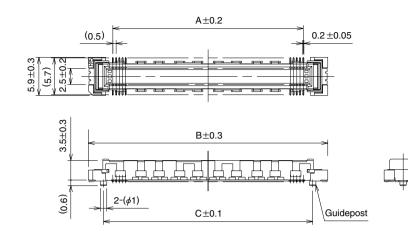
- (2) Cross-hatched portions, 2 places on both sides, indicate the metal fittings.
- 3 Not required in products without guideposts.

The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. **FX10 Series 10**⁺**Gbps 0.5mm pitch Stacking Connectors**

Headers without ground plate

•4mm Stacking Height





Unit: mm

Part No.	CL No.	Number of Contacts Signal	А	В	С	D	E	Remarks
FX10A- 96P-SV(**)	CL570-0041-0-**	96	23.5	31.1	26.4	31.5	28.3	
FX10A-120P-SV(**)	CL570-0042-2-**	120	29.5	37.1	32.4	37.5	34.3	With guidenasta
FX10A-144P-SV(**)	CL570-0043-5-**	144	35.5	43.1	38.4	43.5	40.3	With guideposts
FX10A-168P-SV(**)	CL570-0044-8-**	168	41.5	49.1	44.4	49.5	46.3	
FX10B- 96P-SV(**)	CL570-0051-3-**	96	23.5	31.1		31.5	28.3	
FX10B-120P-SV(**)	CL570-0052-6-**	120	29.5	37.1	—	37.5	34.3	Without guideposts
FX10B-144P-SV(**)	CL570-0053-9-**	144	35.5	43.1		43.5	40.3	without guideposts
FX10B-168P-SV(**)	CL570-0054-1-**	168	41.5	49.1		49.5	46.3	

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

(71): Tray packaging

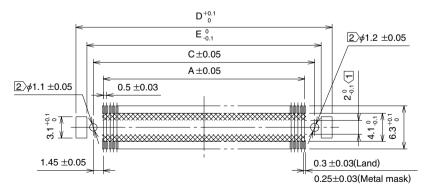
(91): Embossed tape packaging

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)

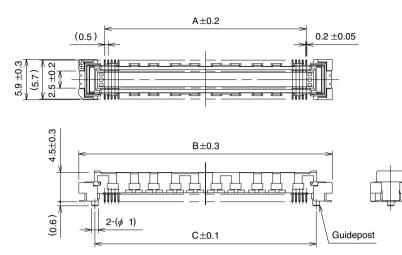


- Note 1 The cross-hatched area inside the SMT land may come into contact with the connector contacts and thus care should be taken that the pattern does not extend beyond the SMT land width.
 - $\boxed{2}$ Not required in products without guideposts.

■Headers without ground plate

•5mm Stacking Height







Part No.	CL No.	Number of Contacts	А	В	С	D	Е	Remarks	
Fait NO.			Ā	Б				nemarks	
FX10A- 96P-SV1(**)	CL570-0141-4-**	96	23.5	31.1	26.4	31.5	28.3		
FX10A-120P-SV1(**)	CL570-0142-7-**	120	29.5	37.1	32.4	37.5	34.3	With guideneate	
FX10A-144P-SV1(**)	CL570-0143-0-**	144	35.5	43.1	38.4	43.5	40.3	With guideposts	
FX10A-168P-SV1(**)	CL570-0144-2-**	168	41.5	49.1	44.4	49.5	46.3		
FX10B- 96P-SV1(**)	CL570-0151-8-**	96	23.5	31.1	_	31.5	28.3		
FX10B-120P-SV1(**)	CL570-0152-0-**	120	29.5	37.1	—	37.5	34.3	Mithout guidenooto	
FX10B-144P-SV1(**)	CL570-0153-3-**	144	35.5	43.1		43.5	40.3	Without guideposts	
FX10B-168P-SV1(**)	CL570-0154-6-**	168	41.5	49.1		49.5	46.3		
		1							

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

(71): Tray packaging

(91): Embossed tape packaging

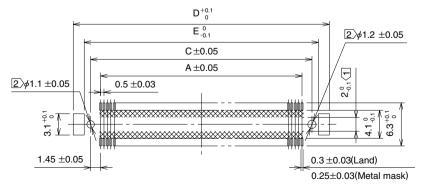
Note 1: There is no polarity in terms of board mounting for this product.

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 4: Using multiple connectors between identical boards is not recommended.

Recommended Land Pattern Dimensions (Metal Mask Dimensions)

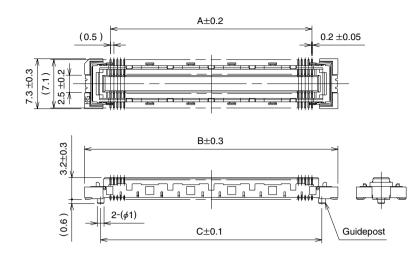


- Note 1 The cross-hatched area inside the SMT land may come into contact with the connector contacts and thus care should be taken that the pattern does not extend beyond the SMT land width.
 - $\boxed{2}$ Not required in products without guideposts.

The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. **FX10 Series 10⁺Gbps 0.5mm pitch Stacking Connectors**

■Receptacles without ground plate







Part No.	CL No.	Number of Contacts Signal	A	В	С	D	E	Remarks	
FX10A- 96S-SV(**)	CL570-0241-9-**	96	23.5	31.1	26.4	31.5	28.3		
FX10A-120S-SV(**)	CL570-0242-1-**	120	29.5	37.1	32.4	37.5	34.3	With guidenasta	
FX10A-144S-SV(**)	CL570-0243-4-**	144	35.5	43.1	38.4	43.5	40.3	With guideposts	
FX10A-168S-SV(**)	CL570-0244-7-**	168	41.5	49.1	44.4	49.5	46.3		
FX10B- 96S-SV(**)	CL570-0251-2-**	96	23.5	31.1		31.5	28.3		
FX10B-120S-SV(**)	CL570-0252-5-**	120	29.5	37.1		37.5	34.3	Mithout quidoposto	
FX10B-144S-SV(**)	CL570-0253-8-**	144	35.5	43.1		43.5	40.3	Without guideposts	
FX10B-168S-SV(**)	CL570-0254-0-**	168	41.5	49.1	_	49.5	46.3		
		1							

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

(71): Tray packaging

(91): Embossed tape packaging

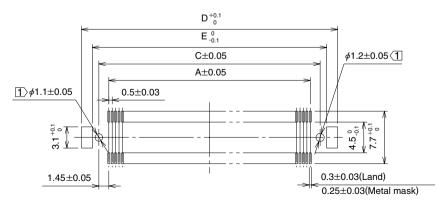
Note 1: There is no polarity in terms of board mounting for this product.

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 4: Using multiple connectors between identical boards is not recommended.

Recommended Land Pattern Dimensions (Metal Mask Dimensions)

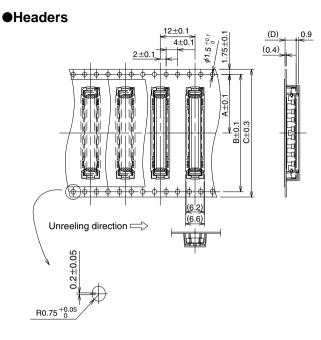




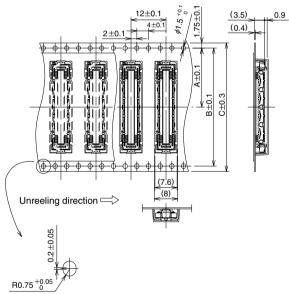
The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. FX10 Series 10+Gbps 0.5mm pitch Stacking Connectors

Embossed Carrier Tape Dimensions

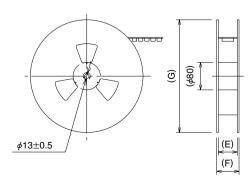
Unit: mm



Receptacles



Reel Dimensions



				_	_	UII	t. mm
Insertion Connector	A	В	С	D	E	F	G
FX10#- 80P/ 8-SV	20.2	40.4	44		45.5	50.5	
FX10#-100P/10-SV	06.0	50.4	56		50	64	
FX10#-120P/12-SV	26.2	52.4	56		59	04	
FX10#-140P/14-SV	34.2	68.4	72	20	76.5	81.5	220
FX10#- 96P -SV	20.2	40.4	44	3.8	45.5	50.5	330
FX10#-120P -SV	06.0	50 4	56		50	64	
FX10#-144P -SV	26.2 5	52.4	50		59	04	
FX10#-168P -SV	34.2	68.4	72		76.5	81.5	
FX10#- 80P/ 8-SV1	20.2	40.4	44		45.5	50.5	
FX10#-100P/10-SV1	06.0	52.4	FC		59	64	
FX10#-120P/12-SV1	26.2	JZ.4	56		59	04	
FX10#-140P/14-SV1	34.2	68.4	72	4.8	76.5	81.5	370
FX10#- 96P -SV1	20.2	40.4	44	4.0	45.5	50.5	370
FX10#-120P -SV1	26.0	52.4	56		59	64	
FX10#-144P -SV1	26.2	52.4	50		59	04	
FX10#-168P -SV1	34.2	68.4	72		76.5	81.5	

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

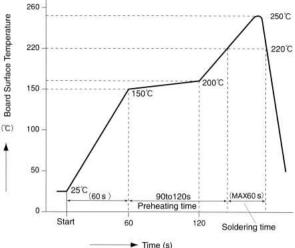
I Init	mm
Unit.	

					011	t. 111111
Insertion Connector	A	В	с	Е	F	G
FX10#- 80S/ 8-SV	20.2	40.4	44	45.5	50.5	
FX10#-100S/10-SV	26.2	52.4	56	59	64	
FX10#-120S/12-SV						
FX10#-140S/14-SV	34.2	68.4	72	76.5	81.5	330
FX10#- 96S -SV	20.2	40.4	44	45.5	50.5	330
FX10#-120S -SV	26.2	52.4	56	59	64	
FX10#-144S -SV						
FX10#-168S -SV	34.2	68.4	72	76.5	81.5	

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

The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. FX10 Series 10⁺Gbps 0.5mm pitch Stacking Connectors

Recommended Temperature Profile



■Washing Conditions

Organic Solvent Cleaning

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

Water Type Cleaning

When using water based 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.

Cleaning 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

The effective mating length of this product is 1.1 mm for the signal portion and 1 mm for the ground portion. The creepage of the header and receptacle at the time of mating should be within 0.5 mm of the completely mating condition.

2. Retension of Boards

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

3. 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.

4. 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.

HRS test Conditions

Test board Glass 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.

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