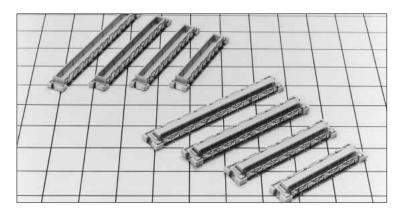
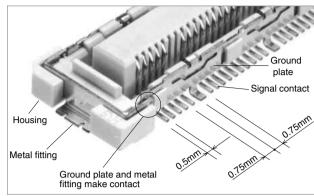


0.5mm Pitch Connectors with Ground Plate for Board-to-Board Connections

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.

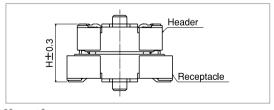
5. High contact reliability

Effective mating length is 1.1 mm for signal contacts.

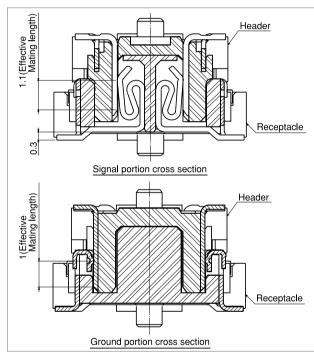
6. Optional Ground Plate

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



Cross-Section of Mating



◆Stack Height

With ground plate

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

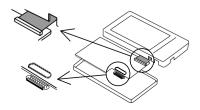
Without ground plate

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

■Applications

Notebook computers, PDA, and other miniature electronic equipment.







■Product Specifications

| Rating | Rated current Rated voltage | | Operating temperature range Operating humidity range | | Storage temperature range Storage humidity range | -10 to +60°C (Note 1) 40 to 70% (Note 1) |
|--------|--------------------------------|--|---|--|---|---|
|--------|--------------------------------|--|---|--|---|---|

| Item | Requirements | Conditions | | | | | |
|--------------------------|---|---|--|--|--|--|--|
| 1. Insulation resistance | 100 MΩ or greater | Measured at 100 V DC | | | | | |
| 2. Voltage resistance | 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 1µs or greater | Frequency: 10 to 55 Hz, amplitude of 0.75 mm in 3 directions, 10 | | | | | |
| 4. VIDIAUOII | No damage, cracks, or parts looseness | cycles each | | | | | |
| 5. Shock | No electrical discontinuity for 1µs or longer | 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 Ω or less, insulation resistance of | Temperature of 40% humidity of 00 to 059/ duration 06 h | | | | | |
| (Steady state) | 100 MΩ or greater, no damage, cracks, or parts looseness | Temperature of 40°C, humidity of 90 to 95%, duration 96 h | | | | | |
| 7. Tamparatura avala | Contact resistance of 70 m Ω or less, insulation resistance of | Temperature: -55° C \rightarrow 15 to 35° C \rightarrow 85°C \rightarrow 15 to 35°C | | | | | |
| 7. Temperature cycle | 100 MΩ or greater, 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 | | | | | |
| Q. Durobility | Contact resistance of 70 mΩ or less | 50 times | | | | | |
| 8. Durability | No damage, cracks, or parts looseness | 50 times | | | | | |
| 9. Resistance to | No molting of ragin parties which affects performance | Reflow: At the recommended temperature profile | | | | | |
| soldering heat | No melting of resin portion which affects performance | Soldering iron temperature: 360°C for 5 seconds | | | | | |

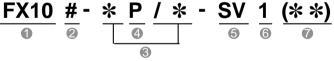
Note 1: The term storage refers to an unused products prior to board mounting (including packing materials) that is being kept for a long period. The operating temperature and humidity range are suited to the non-conducting condition following board assembly.

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

■Materials

| Part | Material | | Process | Notes |
|---------------|-----------------|------------|--|-------|
| Insulator | LCP | | UL94V-0 | |
| | | Header | Engagement Area: Gold plating of 0.1µm | |
| Contacts | Phosphor bronze | пеацеі | Tenmination Area: Tin plating | |
| Contacts | | | Engagement Area: Gold plating of 0.1m | |
| | | Receptacle | Termination Area: Flash plating | |
| Ground plate | Phosphor bronze | | Tin plating | |
| Metal fitting | Phosphor bronze | | | |

■Product Number Configuration



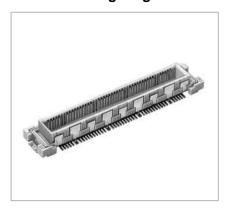
| Series name: FX10 | Contact form |
|--------------------------------------|-------------------------------------|
| Form Symbol | SV: Straight SMT |
| A: With guide post | Product height |
| B: Without guide post | Blank: Standard |
| Number of contacts | 1 : Standard + 1mm |
| With ground plate |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

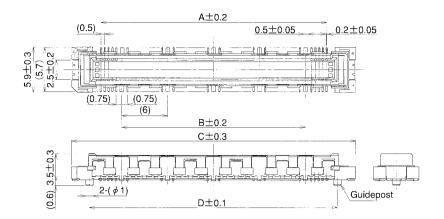
Note 3: Information contained in this catalog represents general requirements for this Series. Contact us for the drawings and specifications for a specific part number shown.

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-problets have been distinctive down discontinuous days and contact your Hirose sales representative.

■Headers with ground plate

●4mm Stacking Height





Unit: mm

| Part No. | CL No. | Number o | of Contacts | Α | В | С | D | Е | F | Remarks | RoHS |
|----------------------|-----------------|----------|-------------|------|----|------|------|------|------|--------------------|------|
| Part No. | CL NO. | Signal | Ground | | В | | U | | Г | Remarks | KUNS |
| FX10A- 80P/ 8-SV(71) | CL570-0001-5-71 | 80 | 8 | 23.5 | 18 | 31.1 | 26.4 | 31.5 | 28.3 | With guideposts | |
| FX10A-100P/10-SV(71) | CL570-0002-8-71 | 100 | 10 | 29.5 | 24 | 37.1 | 32.4 | 37.5 | 34.3 | | |
| FX10A-120P/12-SV(71) | CL570-0003-0-71 | 120 | 12 | 35.5 | 30 | 43.1 | 38.4 | 43.5 | 40.3 | | |
| 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 | | IES |
| FX10B-100P/10-SV(71) | CL570-0022-5-71 | 100 | 10 | 29.5 | 24 | 37.1 | _ | 37.5 | 34.3 | Without guideposts | |
| FX10B-120P/12-SV(71) | CL570-0023-8-71 | 120 | 12 | 35.5 | 30 | 43.1 | _ | 43.5 | 40.3 | | |
| FX10B-140P/14-SV(71) | CL570-0024-0-71 | 140 | 14 | 41.5 | 36 | 49.1 | _ | 49.5 | 46.3 | | |

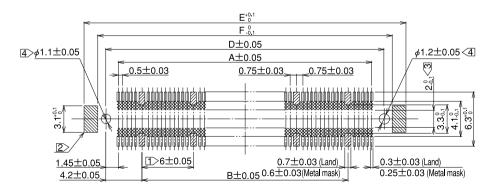
[Specifications number] -* *, (* *)

(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)

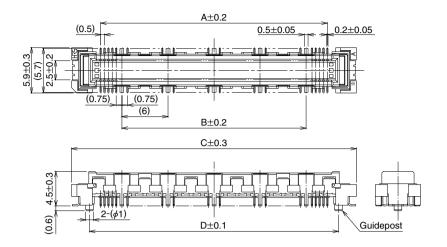


- Note 1 Cross-hatched portions, totaling n places, indicate the ground circuits.
 - 2 Cross-hatched portions, 2 places on both sides, indicate the metal fittings.
 - 3) The cross-hatched area \bigotimes inside the SMT land may come into contact with the connector contacts and thus care should be taken that the pattern does not extend beyond the SMT land width.
 - 4 Not required in products without guideposts.

■Headers with ground plate

●5mm Stacking Height





Unit: mm

| Part No. | CL No. | Number o | of Contacts | А | В | С | D | E | F | Remarks | RoHS |
|-----------------------|-----------------|----------|-------------|------|----|------|------|------|------|--------------------|------|
| Part No. | CL NO. | Signal | Ground | А | Б | | ט | | Г | Remarks | KUNS |
| FX10A- 80P/ 8-SV1(71) | CL570-0101-0-71 | 80 | 8 | 23.5 | 18 | 31.1 | 26.4 | 31.5 | 28.3 | With guideposts | |
| FX10A-100P/10-SV1(71) | CL570-0102-2-71 | 100 | 10 | 29.5 | 24 | 37.1 | 32.4 | 37.5 | 34.3 | | |
| FX10A-120P/12-SV1(71) | CL570-0103-5-71 | 120 | 12 | 35.5 | 30 | 43.1 | 38.4 | 43.5 | 40.3 | | |
| FX10A-140P/14-SV1(71) | CL570-0104-8-71 | 140 | 14 | 41.5 | 36 | 49.1 | 44.4 | 49.5 | 46.3 | | YES |
| FX10B- 80P/ 8-SV1(71) | CL570-0121-7-71 | 80 | 8 | 23.5 | 18 | 31.1 | _ | 31.5 | 28.3 | | 163 |
| FX10B-100P/10-SV1(71) | CL570-0122-0-71 | 100 | 10 | 29.5 | 24 | 37.1 | _ | 37.5 | 34.3 | Without guideposts | |
| FX10B-120P/12-SV1(71) | CL570-0123-2-71 | 120 | 12 | 35.5 | 30 | 43.1 | _ | 43.5 | 40.3 | | |
| FX10B-140P/14-SV1(71) | CL570-0124-5-71 | 140 | 14 | 41.5 | 36 | 49.1 | _ | 49.5 | 46.3 | | |

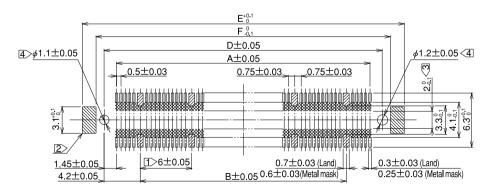
[Specifications number] -* *,(* *)

(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.)

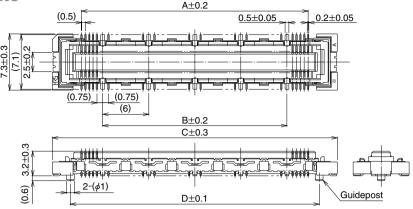
♠ Recommended Land Pattern Dimensions (Metal Mask Dimensions)



- 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.
 - ③The 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.

■Receptacles with ground plate





Unit: mm

| Part No. | CL No. | Number o | of Contacts | Α | В | С | D | Е | F | Remarks | RoHS |
|----------------------|-----------------|----------|-------------|------|----|------|------|------|------|--------------------|------|
| Pail No. | GL NO. | Signal | Ground | A | Ь | | U | _ | ' | | КОПО |
| FX10A- 80S/ 8-SV(71) | CL570-0201-4-71 | 80 | 8 | 23.5 | 18 | 31.1 | 26.4 | 31.5 | 28.3 | With guideposts | |
| FX10A-100S/10-SV(71) | CL570-0202-7-71 | 100 | 10 | 29.5 | 24 | 37.1 | 32.4 | 37.5 | 34.3 | | |
| FX10A-120S/12-SV(71) | CL570-0203-0-71 | 120 | 12 | 35.5 | 30 | 43.1 | 38.4 | 43.5 | 40.3 | | |
| 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 | | 163 |
| 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]- * *,(* *)

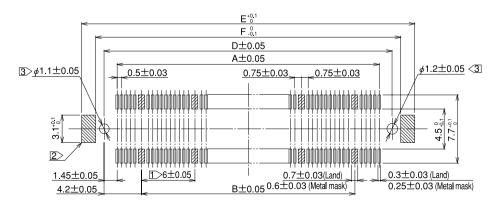
(71): Tray packaging

(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



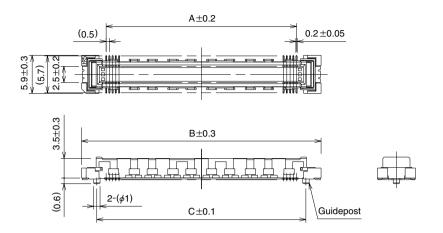
Note 1 Cross-hatched portions, totaling n places, indicate the ground circuits.

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

■Headers without ground plate

●4mm Stacking Height





Unit: mm

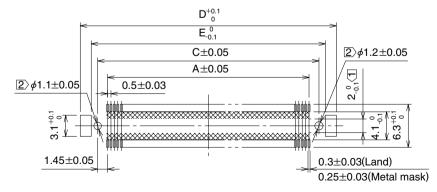
| Dort No. | Part No. CL No. | Number of Contacts | Α | В | С | D | F | Remarks | RoHS |
|-------------------|-----------------|--------------------|------|------|------|------|------|--------------------|------|
| Fait No. | GL NO. | Signal | A | Ь | | D | | Remarks | KUHS |
| FX10A- 96P-SV(71) | CL570-0041-0-71 | 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 | | |
| 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 | | 169 |
| FX10B-120P-SV(71) | CL570-0052-6-71 | 120 | 29.5 | 37.1 | _ | 37.5 | 34.3 | Without guidenests | |
| FX10B-144P-SV(71) | CL570-0053-9-71 | 144 | 35.5 | 43.1 | _ | 43.5 | 40.3 | Without guideposts | |
| 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.)



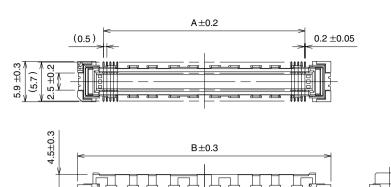
- Note 1 The cross-hatched area inside the SMT land may come into contact with the connector contacts and thus care should be taken that the pattern does not extend beyond the SMT land width.
 - 2 Not required in products without guideposts.

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-problets have been distinctive down discontinuous days and contact your Hirose sales representative.

■Headers without ground plate

●5mm Stacking Height





C±0.1

Unit: mm

Guidepost

| Port No. | Part No. CL No. | Number of Contacts | Α | В | С | D | Е | Remarks | RoHS |
|--------------------|-----------------|--------------------|------|------|------|------|------|--------------------|------|
| Fait No. | GL NO. | Signal | A | В | | U | | Remarks | KUHS |
| 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 guideposts | |
| FX10A-144P-SV1(71) | CL570-0143-0-71 | 144 | 35.5 | 43.1 | 38.4 | 43.5 | 40.3 | | |
| FX10A-168P-SV1(71) | CL570-0144-2-71 | 168 | 41.5 | 49.1 | 44.4 | 49.5 | 46.3 | | YES |
| FX10B- 96P-SV1(71) | CL570-0151-8-71 | 96 | 23.5 | 31.1 | _ | 31.5 | 28.3 | | 160 |
| FX10B-120P-SV1(71) | CL570-0152-0-71 | 120 | 29.5 | 37.1 | _ | 37.5 | 34.3 | Without guideposts | |
| FX10B-144P-SV1(71) | CL570-0153-3-71 | 144 | 35.5 | 43.1 | _ | 43.5 | 40.3 | | |
| FX10B-168P-SV1(71) | CL570-0154-6-71 | 168 | 41.5 | 49.1 | _ | 49.5 | 46.3 | | |

(9.0)

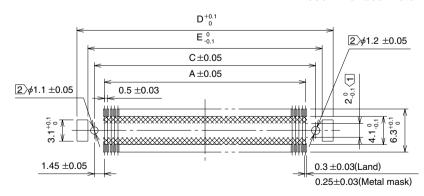
[Specifications number]- * *,(* *)

(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.)

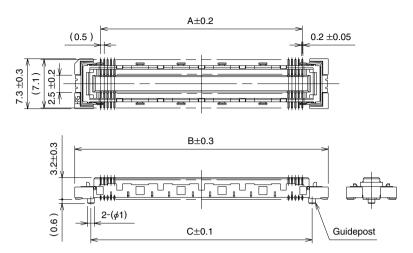
♠ Recommended Land Pattern Dimensions (Metal Mask Dimensions)



- 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.
 - 2 Not required in products without guideposts.

■Receptacles without ground plate





Unit: mm

| Part No. CL No. | Number of Contacts | | В | С | D | Е | Remarks | RoHS | |
|-------------------|--------------------|--------|------|------|------|------|---------|--------------------|------|
| Fait No. | CL NO. | Signal | Α | Ь | | | | Remarks | КОПО |
| 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 | | |
| 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 | | 160 |
| FX10B-120S-SV(**) | CL570-0252-5-** | 120 | 29.5 | 37.1 | _ | 37.5 | 34.3 | Without guidenests | |
| 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 | | |

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

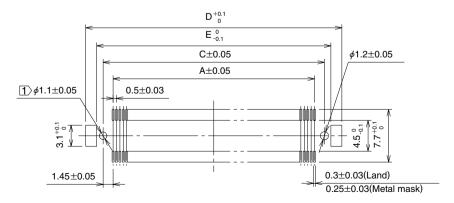
Blank: Tray packaging

(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.

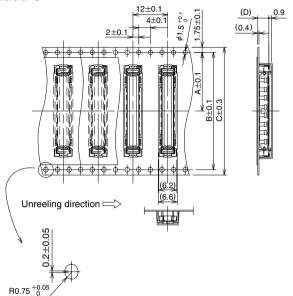
Note 3: Please order embossed tape packaged items by the reel. (One reel holds 1,000 pieces.)



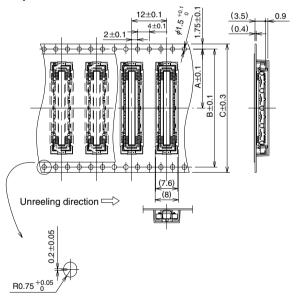
Note 1 Not required in products without guideposts.

● Embossed Carrier Tape Dimensions

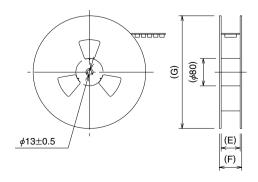
●Headers



Receptacles



●Reel Dimensions



Unit: mm

| Insertion Connector | А | В | С | D | Е | F | G |
|---------------------|------|------|----|-----|------|------|-----|
| FX10#- 80P/ 8-SV1 | 20.2 | 40.4 | 44 | 3.8 | 45.5 | 50.5 | 330 |
| FX10#-100P/10-SV1 | 26.2 | 52.4 | 56 | | F0 | 64 | |
| FX10#-120P/12-SV1 | | | | | 59 | 64 | |
| FX10#-140P/14-SV1 | 34.2 | 68.4 | 72 | | 76.5 | 81.5 | |
| FX10#-196P/ -SV1 | 20.2 | 40.4 | 44 | | 45.5 | 50.5 | |
| FX10#-120P/ -SV1 | 20.2 | 52.4 | 56 | | 59 | 64 | |
| FX10#-144P/ -SV1 | 26.2 | | | | | | |
| FX10#-168P/ -SV1 | 34.2 | 68.4 | 72 | | 76.5 | 81.5 | |
| FX10#- 80P/ 8-SV1 | 20.2 | 40.4 | 44 | 4.8 | 45.5 | 50.5 | 370 |
| FX10#-100P/10-SV1 | 00.0 | 52.4 | 56 | | 59 | 64 | |
| FX10#-120P/12-SV1 | 26.2 | | | | | | |
| FX10#-140P/14-SV1 | 34.2 | 68.4 | 72 | | 76.5 | 81.5 | |
| FX10#-196P/ -SV1 | 20.2 | 40.4 | 44 | | 45.5 | 50.5 | |
| FX10#-120P/ -SV1 | 26.2 | 52.4 | 56 | | F0 | 64 | |
| FX10#-144P/ -SV1 | | | | | 59 | 64 | |
| FX10#-168P/ -SV1 | 34.2 | 68.4 | 72 | | 76.5 | 81.5 | |

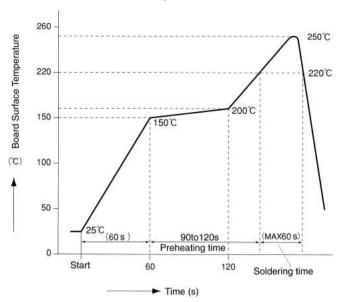
Note: There is no polarity in terms of embossed tape packaging for this product.

Unit: mm

| Insertion Connector | А | В | С | E | 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 | | | | | |
| 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 | | | | | |
| 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.

●Recommended Temperature Profile



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.

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

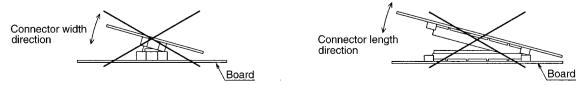
Avoid the support of boards by connectors alone and adopt a locking measure that does not rely on the connectors.

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.



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