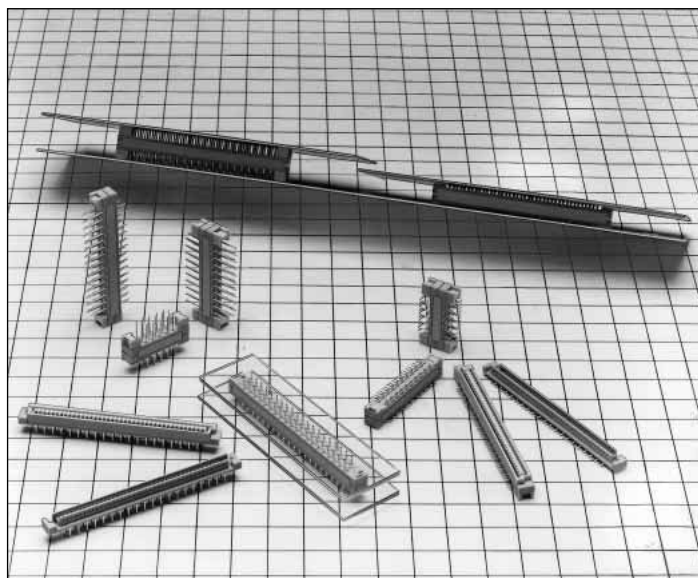
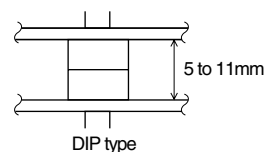


Stacking Height 5 to 11mm Half Pitch Connector

FX4 Series



Stacking Height Flexible



The mounting area 70% reduced, compared with conventional product (FX2 series)



FX2 series



FX4 series

(Compared with 60 contacts)

■Features

The FX4 series is a miniature board to board connectors, where the stacking height can be set at the 1mm interval.

●Through hole Type

1. Small and Light

The mounting space and weight is reduced about 30%, compared to the conventional product (HRS FX2 series), respectively, and the mounting area about 70% reduced, compared to the conventional one.

2. Stacking Height 5 to 11mm

The board to board stacking height can be set per 1mm from 5mm up to 11mm.

3. Flux Swell Prevention

When solder is dipped, the flux swell from the board rear side is completely prevented.

4. Mis-insertion Prevention and Low Insertion/Extraction Force Mechanism

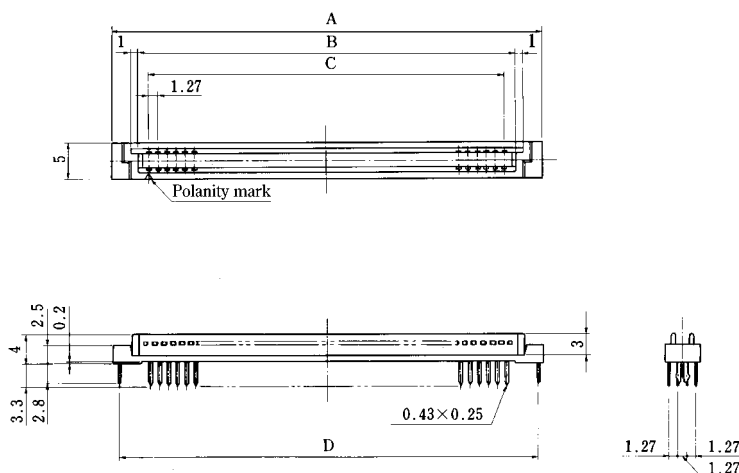
The connection area is designed to completely prevent the mis-insertion.

Moreover, the low insertion/extraction mechanism is adopted.

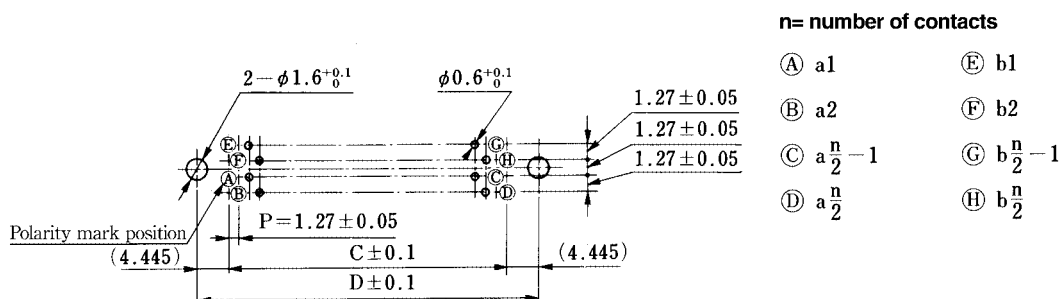
■Applications

Computers, peripheral equipments, business equipments, etc.

■Header (Through hole Type)-Stacking Height: Standard type



◆PCB mounting pattern

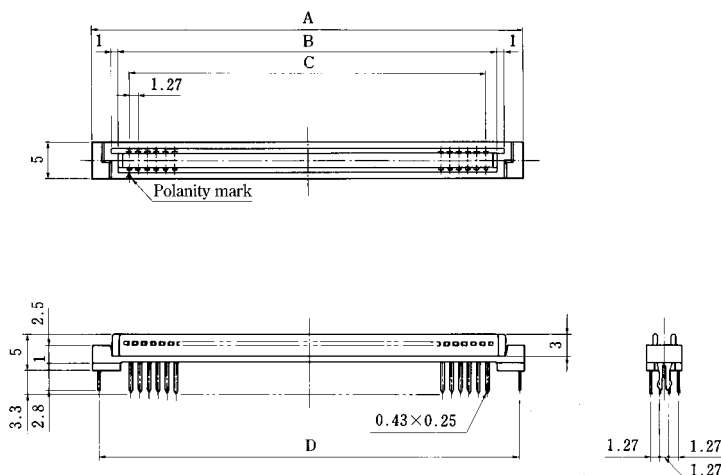


Unit: mm

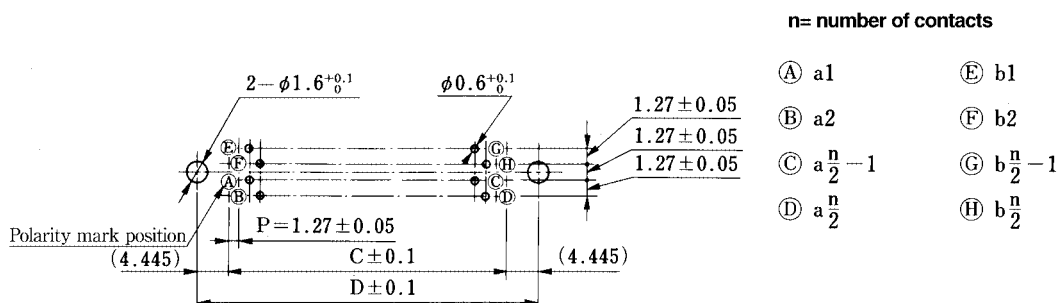
Part Number	CL No.	Number of Contacts	A	B	C	D	RoHS
FX4C-20P-1.27DSA(71)	574-0001-0-71	20	21.87	14.58	11.43	—	YES
FX4C-20P-1.27DSAL(71)	574-0051-9-71					20.32	
FX4C-32P-1.27DSA(71)	574-0002-3-71	32	29.49	22.2	19.05	—	
FX4C-32P-1.27DSAL(71)	574-0052-1-71					27.94	
FX4C-40P-1.27DSA(71)	574-0003-6-71	40	34.57	27.28	24.13	—	
FX4C-40P-1.27DSAL(71)	574-0053-4-71					33.02	
FX4C-52P-1.27DSA(71)	574-0004-9-71	52	42.19	34.9	31.75	—	
FX4C-52P-1.27DSAL(71)	574-0054-7-71					40.64	
FX4C-60P-1.27DSA(71)	574-0005-1-71	60	47.27	39.98	36.83	—	
FX4C-60P-1.27DSAL(71)	574-0055-0-71					45.72	
FX4C-68P-1.27DSA(71)	574-0006-4-71	68	52.35	45.06	41.91	—	
FX4C-68P-1.27DSAL(71)	574-0056-2-71					50.8	
FX4C-80P-1.27DSA(71)	574-0007-7-71	80	59.97	52.68	49.53	—	
FX4C-80P-1.27DSAL(71)	574-0057-5-71					58.42	

FX4 Series Stacking Height 5 to 11mm Half Pitch Connector

Header (Through hole Type)-Stacking Height: Standard+1mm type



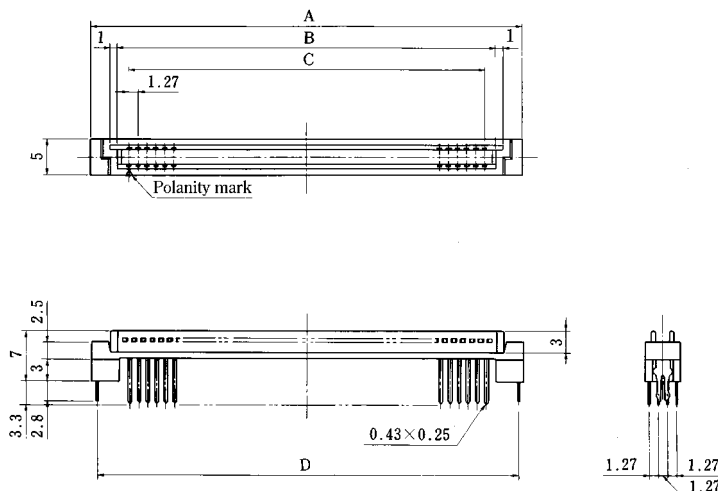
PCB mounting pattern



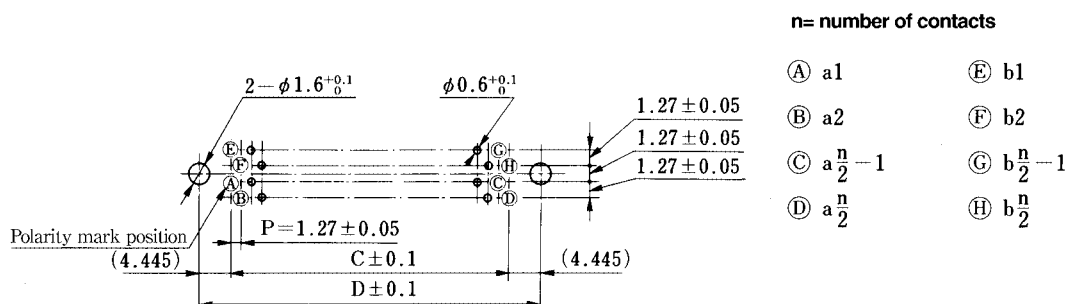
Unit: mm

Part Number	CL No.	Number of Contacts	A	B	C	D	RoHS
FX4C1-20P-1.27DSA(71)	574-0011-4-71	20	21.87	14.58	11.43	—	YES
FX4C1-20P-1.27DSAL(71)	574-0061-2-71					20.32	
FX4C1-32P-1.27DSA(71)	574-0012-7-71	32	29.49	22.2	19.05	—	
FX4C1-32P-1.27DSAL(71)	574-0062-5-71					27.94	
FX4C1-40P-1.27DSA(71)	574-0013-0-71	40	34.57	27.28	24.13	—	
FX4C1-40P-1.27DSAL(71)	574-0063-8-71					33.02	
FX4C1-52P-1.27DSA(71)	574-0014-2-71	52	42.19	34.9	31.75	—	
FX4C1-52P-1.27DSAL(71)	574-0064-0-71					40.64	
FX4C1-60P-1.27DSA(71)	574-0015-5-71	60	47.27	39.98	36.83	—	
FX4C1-60P-1.27DSAL(71)	574-0065-3-71					45.72	
FX4C1-68P-1.27DSA(71)	574-0016-8-71	68	52.35	45.06	41.91	—	
FX4C1-68P-1.27DSAL(71)	574-0066-6-71					50.8	
FX4C1-80P-1.27DSA(71)	574-0017-0-71	80	59.97	52.68	49.53	—	
FX4C1-80P-1.27DSAL(71)	574-0067-9-71					58.42	

Header (Through hole Type)-Stacking Height: Standard+3mm type



PCB mounting pattern

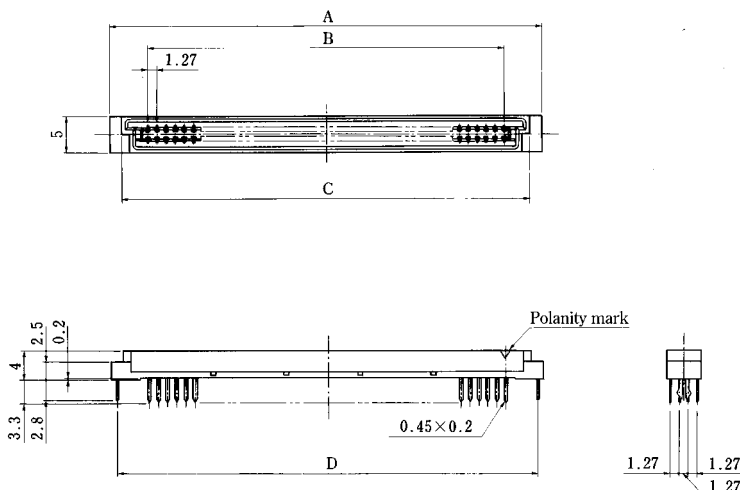


Unit: mm

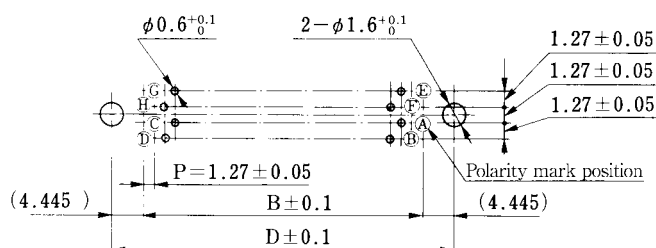
Part Number	CL No.	Number of Contacts	A	B	C	D	RoHS
FX4C3-20P-1.27DSA(71)	574-0031-1-71	20	21.87	14.58	11.43	—	YES
FX4C3-20P-1.27DSAL(71)	574-0081-0-71					20.32	
FX4C3-32P-1.27DSA(71)	574-0032-4-71	32	29.49	22.2	19.05	—	
FX4C3-32P-1.27DSAL(71)	574-0082-2-71					27.94	
FX4C3-40P-1.27DSA(71)	574-0033-7-71	40	34.57	27.28	24.13	—	
FX4C3-40P-1.27DSAL(71)	574-0083-5-71					33.02	
FX4C3-52P-1.27DSA(71)	574-0034-0-71	52	42.19	34.9	31.75	—	
FX4C3-52P-1.27DSAL(71)	574-0084-8-71					40.64	
FX4C3-60P-1.27DSA(71)	574-0035-2-71	60	47.27	39.98	36.83	—	
FX4C3-60P-1.27DSAL(71)	574-0085-0-71					45.72	
FX4C3-68P-1.27DSA(71)	574-0036-5-71	68	52.35	45.06	41.91	—	
FX4C3-68P-1.27DSAL(71)	574-0086-3-71					50.8	
FX4C3-80P-1.27DSA(71)	574-0037-8-71	80	59.97	52.68	49.53	—	
FX4C3-80P-1.27DSAL(71)	574-0087-6-71					58.42	

FX4 Series Stacking Height 5 to 11mm Half Pitch Connector

■Receptacle (Through hole Type)-Stacking Height: Standard type



◆PCB mounting pattern



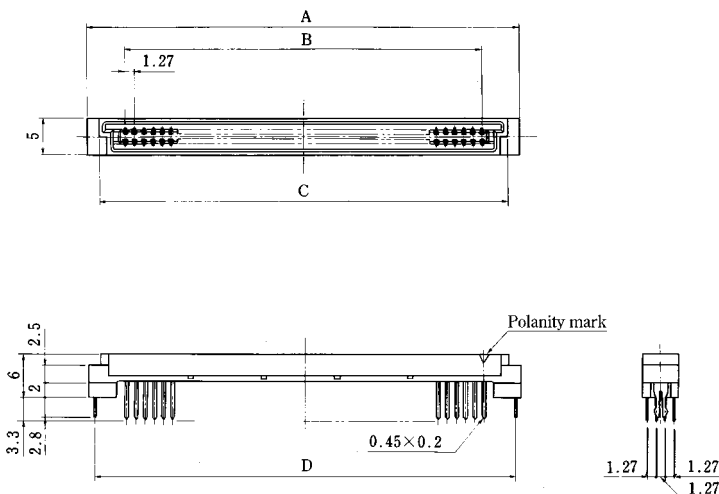
n= number of contacts

- | | |
|-----------------------|-----------------------|
| Ⓐ a1 | Ⓔ b1 |
| Ⓑ a2 | Ⓕ b2 |
| Ⓒ $a \frac{n}{2} - 1$ | Ⓖ $b \frac{n}{2} - 1$ |
| Ⓓ $a \frac{n}{2}$ | Ⓗ $b \frac{n}{2}$ |

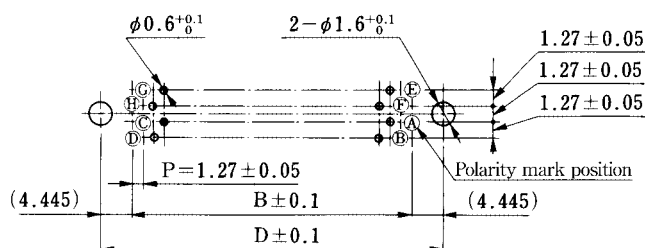
Unit: mm

Part Number	CL No.	Number of Contacts	A	B	C	D	RoHS
FX4C-20S-1.27DSA(71)	574-0101-5-71	20	21.87	11.43	18.48	—	YES
FX4C-20S-1.27DSAL(71)	574-0151-3-71					20.32	
FX4C-32S-1.27DSA(71)	574-0102-8-71	32	29.49	19.05	26.1	—	
FX4C-32S-1.27DSAL(71)	574-0152-6-71					27.94	
FX4C-40S-1.27DSA(71)	574-0103-0-71	40	34.57	24.13	31.18	—	
FX4C-40S-1.27DSAL(71)	574-0153-9-71					33.02	
FX4C-52S-1.27DSA(71)	574-0104-3-71	52	42.19	31.75	38.8	—	
FX4C-52S-1.27DSAL(71)	574-0154-1-71					40.64	
FX4C-60S-1.27DSA(71)	574-0105-6-71	60	47.27	36.83	43.88	—	
FX4C-60S-1.27DSAL(71)	574-0155-4-71					45.72	
FX4C-68S-1.27DSA(71)	574-0106-9-71	68	52.35	41.91	48.96	—	
FX4C-68S-1.27DSAL(71)	574-0156-7-71					50.8	
FX4C-80S-1.27DSA(71)	574-0107-1-71	80	59.97	49.53	56.58	—	
FX4C-80S-1.27DSAL(71)	574-0157-0-71					58.42	

■Receptacle (Through hole Type)-Stacking Height: Standard+2mm type



◆PCB mounting pattern



n= number of contacts

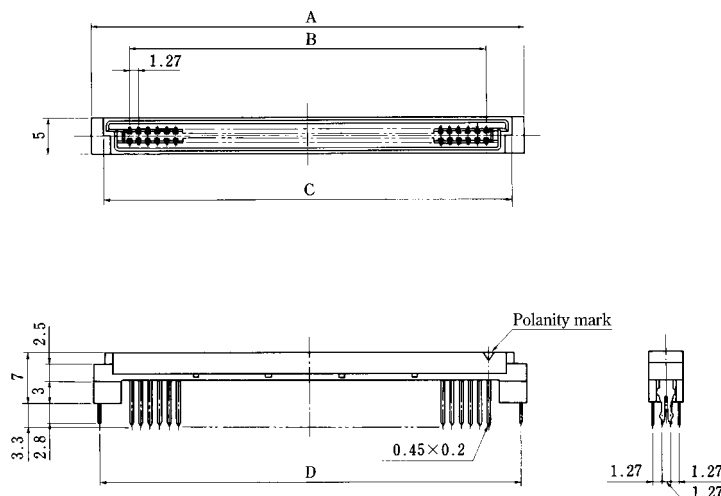
- | | |
|-----------------------|-----------------------|
| Ⓐ a1 | Ⓔ b1 |
| Ⓑ a2 | Ⓕ b2 |
| Ⓒ $a \frac{n}{2} - 1$ | Ⓖ $b \frac{n}{2} - 1$ |
| Ⓓ $a \frac{n}{2}$ | Ⓗ $b \frac{n}{2}$ |

Unit: mm

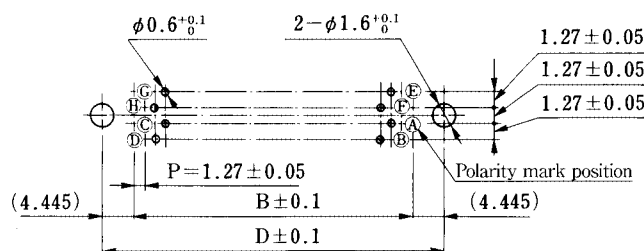
Part Number	CL No.	Number of Contacts	A	B	C	D	RoHS
FX4C2-20S-1.27DSA(71)	574-0121-2-71	20	21.87	11.43	18.48	—	YES
FX4C2-20S-1.27DSAL(71)	574-0171-0-71					20.32	
FX4C2-32S-1.27DSA(71)	574-0122-5-71	32	29.49	19.05	26.1	—	
FX4C2-32S-1.27DSAL(71)	574-0172-3-71					27.94	
FX4C2-40S-1.27DSA(71)	574-0123-8-71	40	34.57	24.13	31.18	—	
FX4C2-40S-1.27DSAL(71)	574-0173-6-71					33.02	
FX4C2-52S-1.27DSA(71)	574-0124-0-71	52	42.19	31.75	38.8	—	
FX4C2-52S-1.27DSAL(71)	574-0174-9-71					40.64	
FX4C2-60S-1.27DSA(71)	574-0125-3-71	60	47.27	36.83	43.88	—	
FX4C2-60S-1.27DSAL(71)	574-0175-1-71					45.72	
FX4C2-68S-1.27DSA(71)	574-0126-6-71	68	52.35	41.91	48.96	—	
FX4C2-68S-1.27DSAL(71)	574-0176-4-71					50.8	
FX4C2-80S-1.27DSA(71)	574-0127-9-71	80	59.97	49.53	56.58	—	
FX4C2-80S-1.27DSAL(71)	574-0177-7-71					58.42	

FX4 Series Stacking Height 5 to 11mm Half Pitch Connector

■Receptacle (Through hole Type)-Stacking Height: Standard+3mm type



◆PCB mounting pattern



n= number of contacts

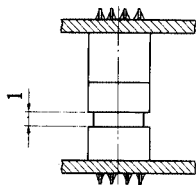
- | | |
|--------------------|--------------------|
| Ⓐ a1 | Ⓔ b1 |
| Ⓑ a2 | Ⓕ b2 |
| Ⓒ $a\frac{n}{2}-1$ | Ⓖ $b\frac{n}{2}-1$ |
| Ⓓ $a\frac{n}{2}$ | Ⓗ $b\frac{n}{2}$ |

Unit: mm

Part Number	CL No.	Number of Contacts	A	B	C	D	RoHS
FX4C3-20S-1.27DSA(71)	574-0131-6-71	20	21.87	11.43	18.48	—	YES
FX4C3-20S-1.27DSAL(71)	574-0181-4-71					20.32	
FX4C3-32S-1.27DSA(71)	574-0132-9-71	32	29.49	19.05	26.1	—	
FX4C3-32S-1.27DSAL(71)	574-0182-7-71					27.94	
FX4C3-40S-1.27DSA(71)	574-0133-1-71	40	34.57	24.13	31.18	—	
FX4C3-40S-1.27DSAL(71)	574-0183-0-71					33.02	
FX4C3-52S-1.27DSA(71)	574-0134-4-71	52	42.19	31.75	38.8	—	
FX4C3-52S-1.27DSAL(71)	574-0184-2-71					40.64	
FX4C3-60S-1.27DSA(71)	574-0135-7-71	60	47.27	36.83	43.88	—	
FX4C3-60S-1.27DSAL(71)	574-0185-5-71					45.72	
FX4C3-68S-1.27DSA(71)	574-0136-0-71	68	52.35	41.91	48.96	—	
FX4C3-68S-1.27DSAL(71)	574-0186-8-71					50.8	
FX4C3-80S-1.27DSA(71)	574-0137-2-71	80	59.97	49.53	56.58	—	
FX4C3-80S-1.27DSAL(71)	574-0187-0-71					58.42	

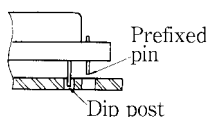
◆ Connector Precautions

1. Tolerance Clearance on Mating Side



The effective connecting length of the product is set to 1.5mm. Please use the product to specify the clearance between the header and the receptacle in the connection process within 1mm.

2. Prefixed Process to Board (Through hole Type)



If the prefixed work is required for mounting on the board, please use the prefixed pin type. (Applicable board thickness $t = 1.6 \pm 0.1$)

Cautions: When the connector is installed in the board, the dip post is guided into the board through-hole in order to prevent the dip post breakage, and then insert the board in parallel to the connector so as to push in the prefixed pin.