

## ■ Precautions – Correct Use

### Backlock Types

Do not lock the slider without an FPC inserted. Locking the slider without an FPC inserted will cause a decrease in the dimensions between the contacts and consequently an increase in the force required to insert an FPC.

- When designing the board, be sure to allow locking space for the slider (i.e., space for the slider when it is locked).
- The connector has a double-sided contact structure and so be sure to insert the FPC with the correct orientation.
- When locking the slider, press it down securely with your fingers at both ends.  
Failing to lock the slider properly may result in contact failure.
- Unlocking the Slider

Unlock the slider manually. Place your index fingers at both ends of the slider and lift it up. Do not apply excessive force when lifting the slider. Doing so may result in the slider being damaged or detached. If the slider becomes detached, it may not be able to hold the FPC and contact failure may result.

### All Models

- Insert the FPC right to the back of the connector. Failing to do so may result in a loss of contact reliability.
- After mounting (and locking) the FPC, do not bend or pull it with excessive force. Doing so may result in FPC disconnection.
- When bending the FPC after mounting to the PCB, do not bend it excessively near the place where it enters the connector.  
Doing so may result in a loss of contact reliability.
- In applications where the connector may frequently be exposed to shock or vibration, or where, as part of a mechanism, connected parts may move, secure the FPC and make sure that it is not subjected to a direct load.
- Do not perform reflow or manual soldering with the FPC inserted in the connector. Doing so may result in a loss of contact reliability.
- Unlock the slider before removing the FPC.
- Use an FPC with the structure recommended by OMRON.
- Do not perform reflow or manual soldering with the sliderlocked. Doing so may result in a loss of contact reliability.
- Observe a metal mask thickness of  $t = 0.12$  to  $0.15$  mm.
- Metal mask open area ratio: 90% of the printed circuit board matching dimensions in the dimensions diagrams.

### Recommended Reflow Conditions

	Standard reflow conditions	Reflow conditions for lead-free solder (backlock type only)
Preheating temperature	150 ± 10°C	150 to 180°C
Soldering temperature	200 to 240°C	230 to 250°C
Time (10s max. at the maximum temperature 240°C)	30s max.	30s max.

### Storage

1. Do not store in locations subject to dust or high humidity levels.
2. Do not store in locations close to sources of gases such ammonia gas or sulphide gas.

Model Number	XF2H	XF2L	XF2J	XF2E
				
<b>Size mm (WxLxH)</b>	(W) x 8.1 x 2.0	(W) x 3.45 x 1.2	(W) x 2.95 x 4.15	(W) x 5.6 x 1.5
<b>Type</b>	Rear Lock	Slide Lock	Slide Lock	Slide
<b>Contact Type</b>	Dual	Upper or Lower	Upper or Lower	Dual
<b>Rating</b>	0.5A	0.5A	0.5A	0.5A
<b>Contact Resistance</b>	Max. 30Ω	Max. 30Ω	Max. 30Ω	Max. 30Ω
<b>Pitch</b>	0.5mm	0.5mm	0.5mm	0.8mm
<b>Applicable FPC Thickness (mm)</b>	0.3mm	0.3mm	0.3mm	0.3mm
<b>Housing Material</b>	PA 6T	LCP Resin	PA 46	PA 46
<b>Contact Material (Finish)</b>	Copper Alloy (Tin Alloy Plating)	Copper Alloy (Tin Alloy Plating)	Copper Alloy (Tin Alloy Plating)	Copper Alloy (Tin Alloy Plating)
<b>Operating Temperature</b>	-30°C to 85°C	-30°C to 85°C	-30°C to 85°C	-30°C to 85°C
<b>Page No.</b>	998	1000	1003	1005
Model Number	XF2R	XF2B	XF2M	XF2N
				
<b>Size mm (WxLxH)</b>	(W) x 5.5 x 0.9	(W) x 5.4 x 1.2	(W) x 5.9 x 2.0	(W) x 5 x 0.9
<b>Type</b>	Rear Lock	Rear Lock	Rear Lock	Rear Lock
<b>Contact Type</b>	Dual	Dual	Dual	Dual
<b>Rating</b>	0.3A	0.2A	0.5A	0.3A
<b>Contact Resistance</b>	Max. 40 Ω	Max. 50 Ω	Max. 40 Ω	Max. 40 Ω
<b>Pitch</b>	0.3 mm	0.5 mm	0.5 mm	0.5 mm
<b>Applicable FPC Thickness (mm)</b>	0.12 mm	0.2 mm	0.3 mm	0.2 mm
<b>Housing Material</b>	LCP Resin	LCP Resin	LCP Resin	LCP Resin
<b>Contact Material (Finish)</b>	Copper Alloy (Au Plating)	Copper Alloy (Au Plating)	Copper Alloy (Tin Alloy Plating)	Copper Alloy (Au Plating)
<b>Operating Temperature</b>	-30°C to 85°C	-30°C to 85°C	-30°C to 85°C	-30°C to 85°C
<b>Page No.</b>	1007	1009	1011	1013

## New rotary – lock concept achieves high reliability and superior work efficiency.

- The unique rotary lock construction significantly improves work efficiency during FPC mounting.
- Double –sided contacts maintain a stable contact force.
- Discrimination between FPC upper and lower contacts is unnecessary.
- Low-profile, protruding only 2 mm on the PCB.



## Specifications

### ■ Specifications

Rated Current	0.5A
Rated Voltage	50 VDC
Contact resistance	30 mΩ max. (max. 20 mV, max. 100 mA)
Insulation resistance	100 MΩ min. (at 250 VDC)
Withstand voltage	250 VAC 1 min. (leakage current: 1 mA max.)
Insertion tolerance	20 times
Ambient temperature	-30 to +85°C (No condensation at low temperatures.)

### ■ Materials/Finish

Housing	PA46 resin (UL94V-0)/natural
Slider	LCP resin (UL94V-0)/black
Contact	Copper-alloy/nickel spring substrate (2μm) plated with tin alloy (2μm)
Hold Down	Spring copper-alloy/fused tin plating (1.5μm)

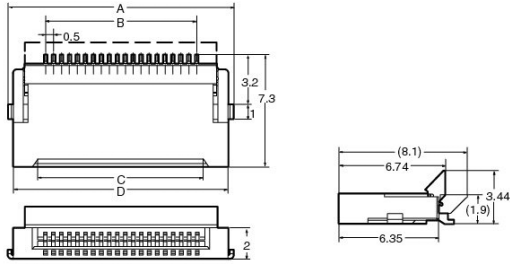
### ■ Ordering Information

Poles	Model	Poles	Model	Quantity per reel*
10	XF2H-1015-1LW	30	XF2H-3015-1LW	1,500
12	XF2H-1215-1LW	32	XF2H-3215-1LW	
13	XF2H-1315-1LW	33	XF2H-3315-1LW	
14	XF2H-1415-1LW	34	XF2H-3415-1LW	
18	XF2H-1815-1LW	35	XF2H-3515-1LW	
20	XF2H-2015-1LW	36	XF2H-3615-1LW	
21	XF2H-2115-1LW	38	XF2H-3815-1LW	
22	XF2H-2215-1LW	40	XF2H-4015-1LW	
24	XF2H-2415-1LW	42	XF2H-4215-1LW	
25	XF2H-2515-1LW	45	XF2H-4515-1LW	
26	XF2H-2615-1LW	50	XF2H-5015-1LW	
28	XF2H-2815-1LW	53	XF2H-5315-1LW	

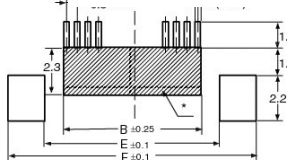
\*Order an integer multiple of the quantity per reel.

■ Dimensions

XF2H-□□15-1

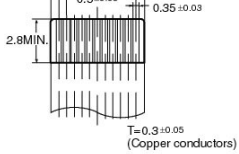


Printed Circuit Board Matching Dimension (Top View)



\* Pattern prohibition

Applicable FPC Dimensions



■ Table of Dimensions

Poles	Model	A	B	C	D	E	F
10	XF2H-1015-1LW	9.1	4.5	5.6	8.5	6.5	10.1
12	XF2H-1215-1LW	10.1	5.5	6.6	9.5	7.5	11.1
13	XF2H-1315-1LW	10.6	6	7.1	10	8	11.6
14	XF2H-1415-1LW	11.1	6.5	7.6	10.5	8.5	12.1
18	XF2H-1815-1LW	13.1	8.5	9.6	12.5	10.5	14.1
20	XF2H-2015-1LW	14.1	9.5	10.6	13.5	11.5	15.1
21	XF2H-2115-1LW	15.1	10.5	11.6	14.5	12.5	16.1
22	XF2H-2215-1LW	15.1	10.5	11.6	14.5	12.5	16.1
24	XF2H-2415-1LW	16.1	11.5	12.6	15.5	13.5	17.1
25	XF2H-2515-1LW	16.6	12.0	13.1	16.0	14.0	17.6
26	XF2H-2615-1LW	17.1	12.5	13.6	16.5	14.5	18.1
28	XF2H-2815-1LW	18.1	13.5	14.6	17.5	15.5	19.1
30	XF2H-3015-1LW	19.1	14.5	15.6	18.5	16.5	20.1
32	XF2H-3215-1LW	20.1	15.5	16.6	19.5	17.5	21.1
33	XF2H-3315-1LW	20.6	16.0	17.1	20.0	18.0	21.6
34	XF2H-3415-1LW	21.1	16.5	17.6	20.5	18.5	22.1
35	XF2H-3515-1LW	21.6	17	18.1	21	19	22.6
36	XF2H-3615-1LW	22.1	17.5	18.6	21.5	19.5	23.1
38	XF2H-3815-1LW	23.1	18.5	19.6	22.5	20.5	24.1
40	XF2H-4015-1LW	24.1	19.5	20.6	23.5	21.5	25.1
42	XF2H-4215-1LW	25.1	20.5	21.6	24.5	22.5	26.1
45	XF2H-4515-1LW	26.6	22	23.1	26	24	27.6
50	XF2H-5015-1LW	29.1	24.5	25.6	28.5	26.5	30.1
53	XF2H-5315-1LW	30.6	26.0	27.1	30.0	28.0	31.6

## Industry – smallest on-board area and low-profile construction enhance board design freedom.

- Occupies smallest on-board area in the industry.
- Low profile only 1.2 mm max. above the board.
- The connectors on the lower surface do not protrude from the rear of the connector face, achieving highest board-design efficiency in the industry.
- Secure locking



## Specifications

### ■ Specifications

Rated Current	0.5A
Rated Voltage	50 VDC
Contact resistance	30 mΩ max. (max. 20 mV, max. 100 mA)
Insulation resistance	100 MΩ min. (at 250 VDC)
Withstand voltage	250 VAC 1 min. (leakage current: 1 mA max.)
Insertion tolerance	30 times
Ambient temperature	-30 to +85°C (No condensation at low temperatures.)

### ■ Materials/Finish

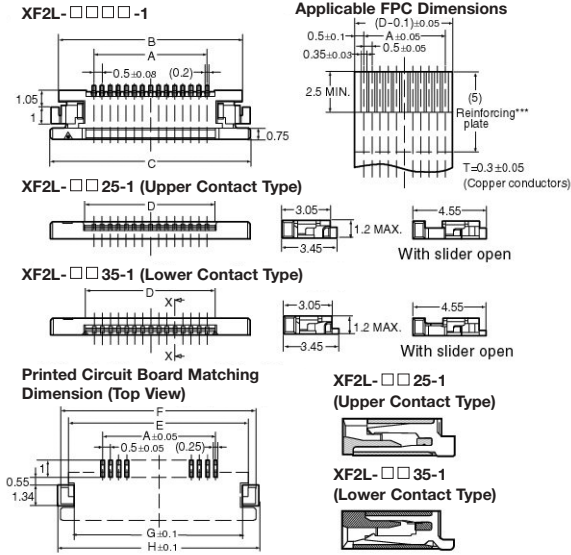
	Upper Contact Type	Lower Contact Type
Housing	LCP Resin (UL94V-0)/natural	LCP Resin (UL94V-0)/natural
Slider	LCP resin (UL94V-0)/black	LCP resin (UL94V-0)/brown
Contact	Copper-alloy/nickel spring substrate (2μm) plated with tin alloy (2μm)	
Hold-down	Spring copper-alloy/fused tin plating (1.5μm)	

### ■ Ordering Information

Poles	Type	Model	Poles	Type	Model	Quantity per reel*
4	Upper Contact	XF2L-0425-1	13	Upper Contact	XF2L-1325-1	3,000
5	Lower Contact	XF2L-0535-1		Lower Contact	XF2L-1335-1	
6	Upper Contact	XF2L-0625-1	15	Lower Contact	XF2L-1535-1	
	Lower Contact	XF2L-0635-1		18	Upper Contact	
7	Upper Contact	XF2L-0725-1	19		Lower Contact	XF2L-1835-1
	Lower Contact	XF2L-0735-1		20	Lower Contact	XF2L-1935-1
8	Upper Contact	XF2L-0825-1	21		Upper Contact	XF2L-2125-1
	Lower Contact	XF2L-0835-1		22	Lower Contact	XF2L-2235-1
9	Upper Contact	XF2L-0925-1	24		Lower Contact	XF2L-2435-1
10	Upper Contact	XF2L-1025-1		26	Upper Contact	XF2L-2625-1
	Lower Contact	XF2L-1035-1	30		Upper Contact	XF2L-3025-1
12	Upper Contact	XF2L-1225-1		30	Lower Contact	XF2L-3035-1
	Lower Contact	XF2L-1235-1				

\*Order an integer multiple of the quantity per reel.

■ Dimensions



■ Table of Dimensions

Upper Contact Type

Poles	Model	A	B	C	D	E	F	G	H
4	XF2L-0425-1	1.5	5.9	6.9	2.6	5.88	6.88	5.28	7.28
6	XF2L-0625-1	2.5	6.9	7.9	3.6	6.88	7.88	6.28	8.28
7	XF2L-0725-1	3.0	7.4	8.4	4.1	7.38	8.38	6.78	8.78
8	XF2L-0825-1	3.5	7.9	8.9	4.6	7.88	8.88	7.28	9.28
9	XF2L-0925-1	4.0	8.4	9.4	5.1	8.38	9.38	7.78	9.78
10	XF2L-1025-1	4.5	8.9	9.9	5.6	8.88	9.88	8.28	10.28
12	XF2L-1225-1	5.5	9.9	10.9	6.6	9.88	10.88	9.28	11.28
13	XF2L-1325-1	6.0	10.4	11.4	7.1	10.38	11.38	9.78	11.78
18	XF2L-1825-1	8.5	12.9	13.9	9.6	12.88	13.88	12.28	14.28
21	XF2L-2125-1	10.0	14.4	15.4	11.1	14.38	15.38	13.78	15.78
26	XF2L-2625-1	12.5	16.9	17.9	13.6	16.88	17.88	16.28	18.28
30	XF2L-3025-1	14.5	18.9	19.9	15.6	18.88	19.88	18.28	20.28

## Lower Contact Type

Poles	Model	A	B	C	D	E	F	G	H
5	XF2L-0535-1	2.0	6.4	7.4	3.1	6.38	7.38	5.78	7.78
6	XF2L-0635-1	2.5	6.9	7.9	3.6	6.88	7.88	6.28	8.28
7	XF2L-0735-1	3.0	7.4	8.4	4.1	7.38	8.38	6.78	8.78
8	X2FL-0835-1	3.5	7.9	8.9	4.6	7.88	8.88	7.28	9.28
10	XF2L-1035-1	4.5	8.9	9.9	5.6	8.88	9.88	8.28	10.28
12	XF2L-1235-1	5.5	9.9	10.9	6.6	9.99	10.88	9.28	11.28
13	XF2L-1335-1	6.0	10.4	11.4	7.1	10.38	11.38	9.78	11.78
15	XF2L-1535-1	7.0	11.4	12.4	8.1	11.38	12.38	10.78	12.78
18	XF2L-1835-1	8.5	12.9	13.9	9.6	12.88	13.88	12.28	14.28
19	XF2L-1935-1	9.0	13.4	14.4	10.1	13.38	14.38	12.78	14.78
20	XF2L-2035-1	9.5	13.9	14.9	10.6	13.88	14.88	13.28	15.28
22	XF2L-2235-1	10.5	14.9	15.9	11.6	14.88	15.88	14.28	16.28
24	XF2L-2435-1	11.5	15.9	16.9	12.6	15.88	16.88	15.28	17.28
30	XF2L-3035-1	14.5	18.9	19.9	15.6	18.88	19.88	18.28	20.28

## Top-entry ZIF Connector

- Slider achieves secure locking.
- Low-profile, protruding only 4.15 mm on the PCB.
- Adhesion face on top of the connector suits automatic mounting.



## Specifications

### ■ Specifications

Rated Current	0.5A
Rated Voltage	50 VDC
Contact resistance	30 mΩ max. (max. 20 mV, max. 100 mA)
Insulation resistance	100 MΩ min. (at 100 VDC)
Withstand voltage	250 VAC 1 min. (leakage current: 1 mA max.)
Insertion tolerance	30 times
Ambient temperature	-30 to +85°C (No condensation at low temperatures.)

### ■ Materials/Finish

Housing	PA46 resin (UL94V-0)/natural
Slider	PPS resin (UL94V-0)/black
Contact	Copper-alloy/nickel spring substrate (2μm) plated with tin alloy (2μm)
Hold Down	Copper-alloy/copper substrate (2μm) plated with tin alloy (2μm)

### ■ Ordering Information

Poles	Model		Quantity per reel*
	Standard Terminal Arrangement	Reverse Terminal Arrangement	
6	XF2J-0624-11	XF2J-0624-12	1,000
8	XF2J-0824-11	XF2J-0824-12	
10	XF2J-1024-11	XF2J-1024-12	
12	XF2J-1224-11	XF2J-1224-12	
14	XF2J-1424-11	-	
16	XF2J-1624-11	XF2J-1624-12	
18	XF2J-1824-11	XF2J-1824-12	
20	XF2J-2024-11	XF2J-2024-12	
22	XF2J-2224-11	XF2J-2224-12	
24	XF2J-2424-11	XF2J-2424-12	
26	XF2J-2624-11	-	
28	XF2J-2824-11	-	
30	XF2J-3024-11	-	

\*Order an integer multiple of the quantity per reel.



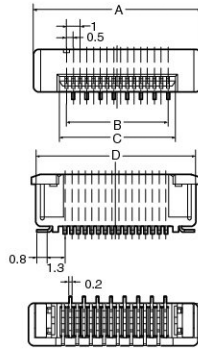
■ Dimensions

XF2J-□□□24-11

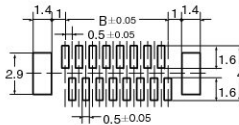


Standard Terminal Arrangement

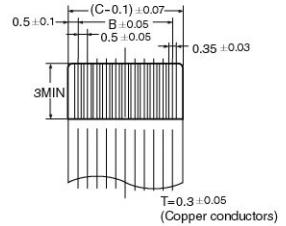
Reverse Terminal Arrangement



Printed Circuit Board Matching Dimensions (Top View)



Applicable FPC Dimensions



■ Table of Dimensions

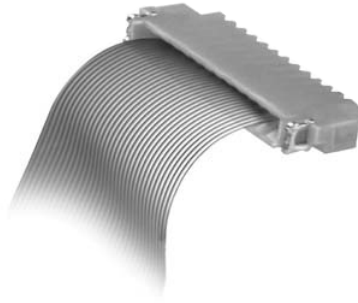
Poles	Model		A	B	C	D
	Standard Terminal Arrangement	Reverse Terminal Arrangement				
6	XF2J-0624-11	XF2J-0624-12	7.5	2.5	3.6	6.9
8	XF2J-0824-11	XF2J-0824-12	8.5	3.5	4.6	7.9
10	XF2J-1024-11	XF2J-1024-12	9.5	4.5	5.6	8.9
12	XF2J-1224-11	XF2J-1224-12	10.5	5.5	6.6	9.9
14	XF2J-1424-11	-	11.5	6.5	7.6	10.9
16	XF2J-1624-11	XF2J-1624-12	12.5	7.5	8.6	11.9
18	XF2J-1824-11	XF2J-1824-12	13.5	8.5	9.6	12.9
20	XF2J-2024-11	XF2J-2024-12	14.5	9.5	10.6	13.9
22	XF2J-2224-11	XF2J-2224-12	15.5	10.5	11.6	14.9
24	XF2J-2424-11	XF2J-2424-12	16.5	11.5	12.6	15.9
26	XF2J-2624-11	-	17.5	12.5	13.6	16.9
28	XF2J-2824-11	-	18.5	13.5	14.6	17.9
30	XF2J-3024-11	-	19.5	14.5	15.6	18.9

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

**Optimum low-profile design (SMT Terminal). Ultra-low-profile FPC/FFC connector only 1.5mm above the PCB.**

- Side-entry
- Ultra-low-profile only 1.5 mm on the PCB allows mounting in spaces with restricted height.
- 0.8 mm-pitch SMT connectors allow high-density mounting.
- Modified-PA-resin housing is compatible with VPS, IR reflow, etc
- Double-sided contacts maintain a stable contact force.
- Standard tape packing compatible with automatic mounting.



## Specifications

Rated Current	0.5A
Rated Voltage	50 VDC
Contact resistance	30 mΩ max. (max. 20 mV, max. 100 mA)
Insulation resistance	100 MΩ min. (at 100 VDC)
Withstand voltage	500 VAC 1 min. (leakage current: 1 mA max.)
Total insertion force	Poles x 2.0 N (200 gf) max.
Total removal force	Poles x 0.3 N (200 gf) max.
Insertion tolerance	10 times
Ambient temperature	-30 to +85°C (No condensation at low temperatures.)

## Materials/Finish

Housing	Modified PA resin containing glass (UL94V-0)/opal
Contact	Copper-alloy/nickel spring substrate (2μm) plated with tin alloy (2μm)
Hold Down	Copper-alloy/copper substrate (2μm) plated with tin alloy (2μm)

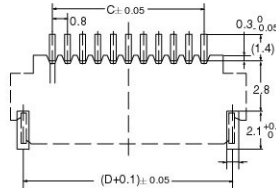
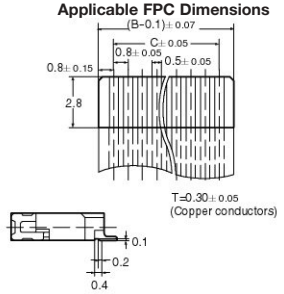
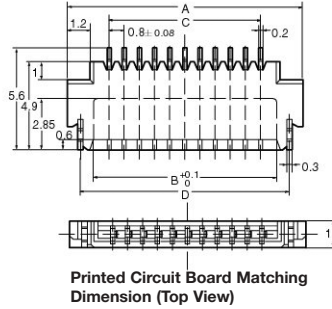
## Ordering Information

Poles	Model	Poles	Model	Quantity per reel*
5	XF2E-0515-1	10	XF2E-1015-1	4,000
6	XF2E-0615-1	12	XF2E-1215-1	
7	XF2E-0715-1	15	XF2E-1515-1	
8	XF2E-0815-1	17	XF2E-1715-1	
9	XF2E-0915-1	20	XF2E-1015-1	

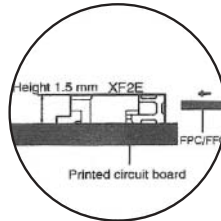
\*Order an integer multiple of the quantity per reel.

### ■ Dimensions

XF2E-□□ 15-1 (SMT Terminal)



### ■ Mounted Image



### ■ Table of Dimensions

Poles	Model	A	B	C	D
5	XF2E-0515-1	7.6	4.9	3.2	6.2
6	XF2E-0615-1	8.4	5.7	4.0	7.0
7	XF2E-0715-1	9.2	6.5	4.8	7.8
8	XF2E-0815-1	10.0	7.3	5.6	8.6
9	XF2E-0915-1	10.8	8.1	6.4	9.4
10	XF2E-1015-1	11.6	8.9	7.2	10.2
12	XF2E-1215-1	13.2	10.5	8.8	11.8
15	XF2E-1515-1	15.6	12.9	11.2	14.2
17	XF2E-1715-1	17.2	14.5	12.8	15.8
20	XF2E-1015-1	19.6	16.9	15.2	18.2

**ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.**

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

■ **FPC Insertion and Work Efficiency Significantly Improved with 0.9-mm Profile and FPC Guide Section**



- FPC Insertion greatly improved with 1.1-mm FPC guide section.
- The effective interface length for terminals has been increased to 1.4 mm to ensure stability in applications with a lot of movement.
- Double-sided (upper and lower) contact structure enables component reductions.
- Applicable FPC thickness, t = 0.12mm. Gold-plated type.
- Use FPCs with the construction recommended by OMRON. (Refer to specifications for details.)

Specifications

<b>Rated Current</b>	0.3A AC/DC
<b>Rated Voltage</b>	50V AC/DC
<b>Contact resistance</b>	40 mΩ max. (max. 20 mV, max. 100 mA max.)
<b>Insulation resistance</b>	100 MΩ min. (at 250 VDC)
<b>Withstand voltage</b>	250V AC 1 min. (leakage current: 1 mA max.)
<b>Insertion tolerance</b>	20 times
<b>Ambient operating temperature</b>	-30 to +85°C (with no icing or condensation)

■ **Materials/Finish**

<b>Housing</b>	LCP resin (UL94V-0)/natural
<b>Slider</b>	LCP resin (UL94V-0)/brown
<b>Contact</b>	Spring copper alloy/nickel substrate (1.5μm), gold-plated contacts (0.15 μm)
<b>Hold Down</b>	Spring copper alloy/fused-tin plating (1.5 μm)

■ **Ordering Information**

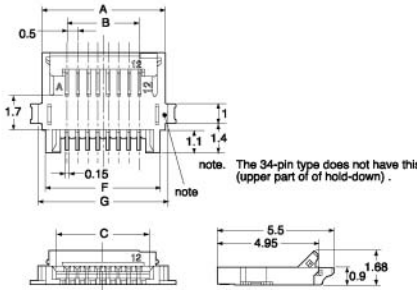
Pins (See note 1)	Model	Pins (See note 1)	Model	Quantity per reel (See note 2)
6	XF2R-0615-4A	24	XF2R-3415-4A	3,000
9	XF2R-0915-4A	34	XF2R-3415-4A	
18	XF2R-1815-4A	40	XF2R-4015-4A	

**Note 1:** Consult your OMRON representative for enquiries related to pin-number specifications.

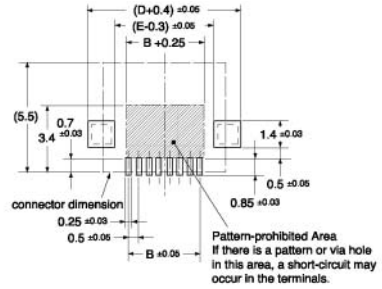
**Note 2:** Order an integer multiple of the quantity per reel.

■ Dimensions

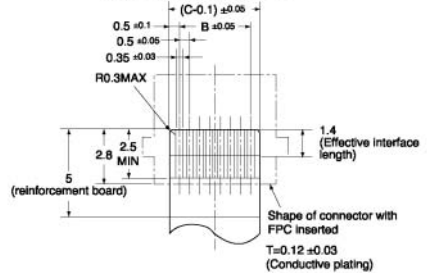
XF2R-□□15-4A



Printed Circuit Board Matching Dimensions (Top View)



Applicable FPC Dimensions



■ Table of Dimensions

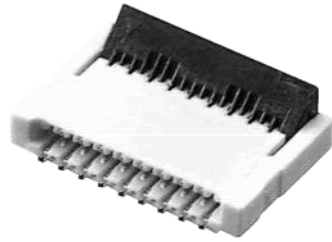
Poles	Model	A	B	C	D	E	F	G
6	XF2R-0615-4A	5.0	2.5	3.6	6.1	4.1	4.55	5.35
9	XF2R-0915-4A	6.5	4.0	5.1	7.6	5.6	6.05	6.85
18	XF2R-1815-4A	11.0	8.5	9.6	12.1	10.1	10.55	11.35
24	XF2R-2415-4A	14.0	11.5	12.6	15.1	13.1	13.55	14.35
34	XF2R-3415-4A	19.0	16.5	17.6	20.1	18.1	18.55	-
40	XF2R-4015-4A	22.0	19.5	20.6	23.1	21.1	21.55	22.35

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

■ Rotary backlock mechanism and 0.3mm-pitch design

- Wall provided on reverse side of connector to allow greater freedom of board design.
- Double-sided (upper and lower) contact structure enables component reductions.
- Applicable FPC thickness, t = 0.2mm. Gold-plated type.
- Use FPCs with the construction recommended by OMRON. (Refer to specifications for details.)



Specifications

Rated Current	0.2A AC/DC
Rated Voltage	50V AC/DC
Contact resistance	50 mΩ max. (max. 20 mV, max. 100 mA max.)
Insulation resistance	100 MΩ min. (at 250 VDC)
Withstand voltage	250V AC 1 min. (leakage current: 1 mA max.)
Insertion tolerance	20 times
Ambient temperature	-30 to +85°C (with no icing or condensation)

■ Materials/Finish

Housing	LCP resin (UL94V-0)/natural
Slider	LCP resin (UL94V-0)/black
Contact	Spring copper alloy/nickel substrate (2 μm), gold-plated contacts (0.15 μm)

■ Ordering Information

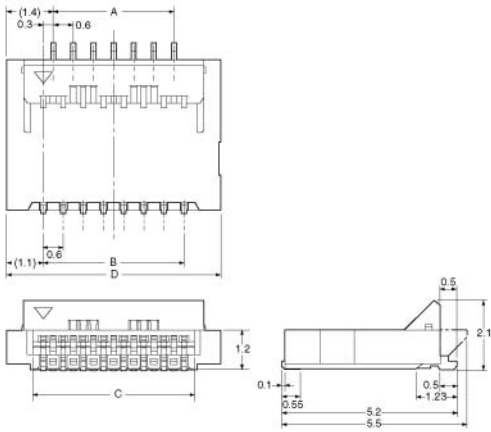
Poles (see note 1)	Model	Quantity per reel (see note 2)
17	XF2B-1745-31A	1,500
23	XF2B-2345-31A	
31	XF2B-3145-31A	
33	XF2B-3345-31A	

Note 1: Consult your OMRON representative for enquiries related to pin-number specifications.

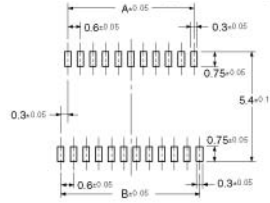
Note 2: Order an integer multiple of the quantity per reel.

■ Dimensions

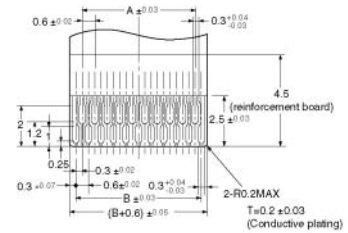
XF2B-□□45-31A



Printed Circuit Board Matching Dimensions (Top View)



Applicable FPC Dimensions



■ Table of Dimensions

Poles	Model	A	B	C	D
17	XF2B-1745-31A	4.2	4.8	5.5	7.0
23	XF2B-2345-31A	6.0	6.6	7.3	8.8
31	XF2B-3145-31A	8.4	9.0	9.7	11.2
33	XF2B-3345-31A	9.0	9.6	10.3	11.8

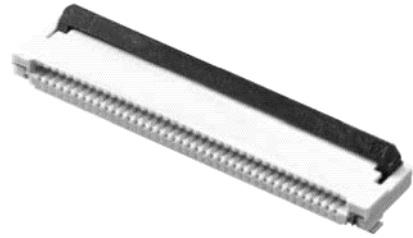
ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

## ■ Reduced-area type requires

**Approx. 27% less on-board mounting area than the XF2H**

- Short body with depth of 5.9mm (with slider closed).
- Environment-friendly type that eliminates lead from solder is available as a standard product.
- Double-sided (upper and lower) contact structure enables component reductions.
- Applicable FPC thickness,  $t = 0.3\text{mm}$ .



## Specifications

Rated Current	0.5A AC/DC
Rated Voltage	50V AC/DC
Contact resistance	40 mΩ max. (max. 20 mV, max. 100 mA max.)
Insulation resistance	100 MΩ min. (at 250 VDC)
Withstand voltage	250V AC 1 min. (leakage current: 1 mA max.)
Insertion tolerance	20 times
Ambient temperature	-30 to +85°C (with no icing or condensation)

## ■ Materials/Finish

Housing	LCP resin (UL94V-0)/natural
Slider	LCP resin (UL94V-0)/black
Contact	Spring copper alloy/nickel spring substrate (2 μm), tin-alloy plating (1.5 μm)

## ■ Ordering Information

Poles (see note 1)	Model	Quantity per reel (see note 2)
10	XF2M-1015-1DL	1500
20	XF2M-2015-1DL	
30	XF2M-3015-1DL	
32	XF2M-3215-1DL	
34	XF2M-3415-1DL	
36	XF2M-3615-1DL	
40	XF2M-4015-1DL	
50	XF2M-5015-1DL	

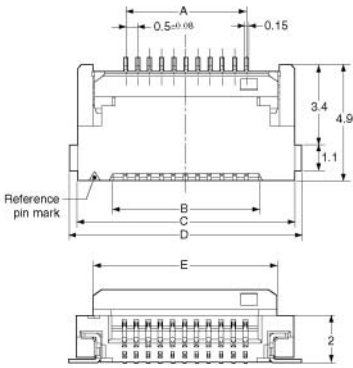
**Note 1:** Consult your OMRON representative for enquiries related to pin-number and gold-plated contacts specifications.

**Note 2:** Order an integer multiple of the quantity per reel.

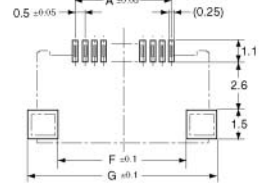


■ Dimensions

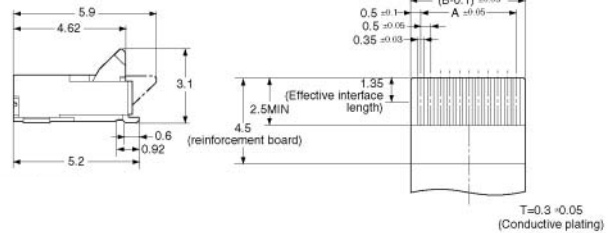
XF2M-□□15-1F



Printed Circuit Board Matching Dimensions (Top View)



Applicable FPC Dimensions



■ Table of Dimensions

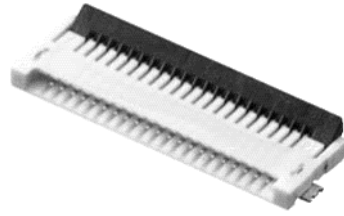
Poles	Model	A	B	C	D	E	F	G
10	XF2M-1015-1F	4.5	5.6	8.5	9.1	7.1	6.1	9.5
20	XF2M-2015-1F	9.5	10.6	13.5	14.1	12.1	11.1	14.5
30	XF2M-3015-1F	14.5	15.6	18.5	19.1	17.1	16.1	19.5
32	XF2M-3215-1F	15.5	16.6	19.5	20.1	18.1	17.1	20.5
34	XF2M-3415-1F	16.5	17.6	20.5	21.1	19.1	18.1	21.5
36	XF2M-3615-1F	17.5	18.6	21.5	22.1	20.1	19.1	22.5
40	XF2M-4015-1F	19.5	20.6	23.5	24.1	22.1	21.1	24.5
50	XF2N-5015-1F	24.5	25.6	28.5	29.1	27.1	26.1	29.5

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

## ■ Greater Freedom of Board Design with 0.9 mm Profile

- Backlock mechanism makes FPC mounting significantly easier.
- Double-sided (upper and lower) contact structure enables component reductions.
- Applicable FPC thickness,  $t = 0.2\text{mm}$ . Gold-plated type.
- Use FPCs with the construction recommended by OMRON. (Refer to specifications for details.)



## Specifications

Rated Current	0.3A AC/DC
Rated Voltage	50V AC/DC
Contact resistance	40 mΩ max. (max. 20 mV, max. 100 mA max.)
Insulation resistance	100 MΩ min. (at 250 VDC)
Withstand voltage	250V AC 1 min. (leakage current: 1 mA max.)
Insertion tolerance	20 times
Ambient temperature	-30 to +85°C (with no icing or condensation)

## ■ Materials/Finish

Housing	LCP resin (UL94V-0)/natural
Slider	LCP resin (UL94V-0)/black
Contact	Spring copper alloy/nickel substrate (1.5μm), gold-plated contacts (0.15 μm)
Hold Down	Spring copper alloy/fused-tin plating (1.5 μm)

## ■ Ordering Information

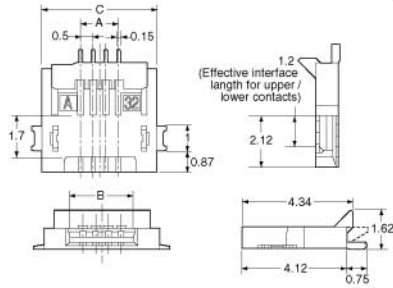
Poles (see note 1)	Model	Quantity per reel (see note 2)
21	XF2N-2115-3	3,000
32	XF2N-3215-3	

**Note 1:** Consult your OMRON representative for enquiries related to pin-number specifications.

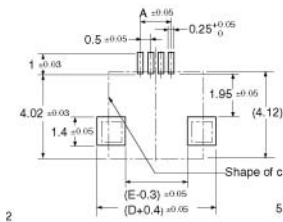
**Note 2:** Order an integer multiple of the quantity per reel.

■ Dimensions

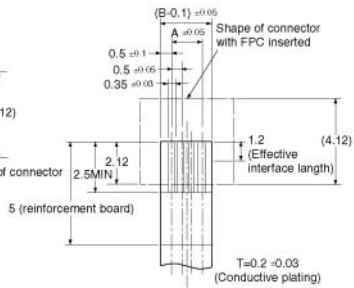
XF2N-□□15-3



Printed Circuit Board Matching Dimensions (Top View)



Applicable FPC Dimensions



■ Table of Dimensions

Poles	Model	A	B	C	D	E
21	XF2N-2115-3	10.0	11.1	13.0	13.8	11.8
32	XF2N-3215-3	15.5	16.6	18.5	19.3	17.3

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.