

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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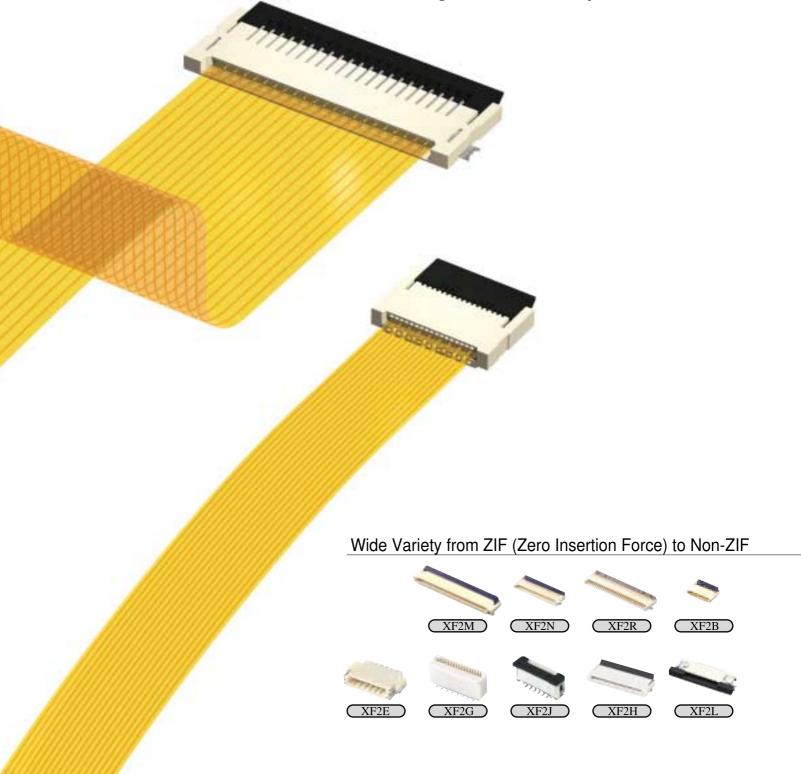
OMRON



Low-profile FPC connectors with 0.3/0.5 mm-pitch

Series Additions

Original backlock mechanism ensures greater work efficiency and higher reliability.

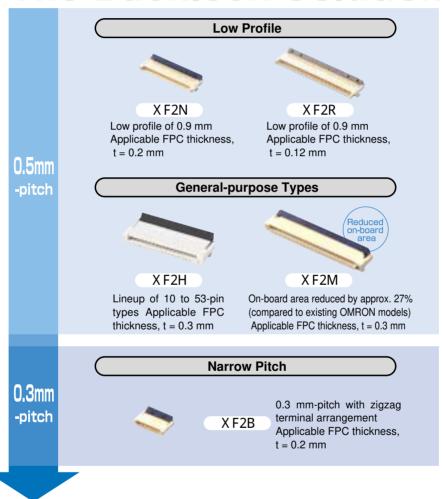


FP See How Far FPC Connectors Have Advanced

FPC connectors must offer easy operation and secure mounting in tight work spaces. The unique construction of the XF2 Series solves all FPC mounting problems and significantly enhances work efficiency and reliability.

Meeting the rapidly increasing need for smaller dimensions, slimmer profiles, and greater functionality:

The Backlock Solution

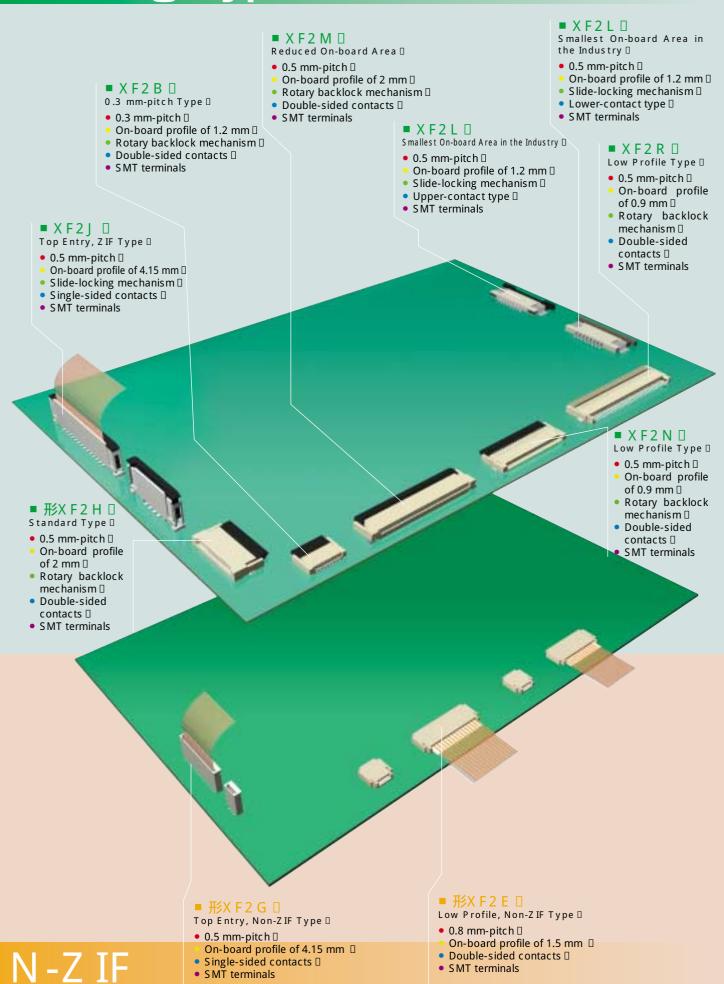


Applications





Locking Types





Features of Rotary Backlock Mechanism

Improvement 1 Improvement 2 Rotary slider independent of the FPC socket. Four-shrouded FPC housing. Slider does not disconnect if the FPC is lifted. Construction prevents FPC positional displacement. High reliability. A mounted FPC will not come away if excess force is applied to it. Enhanced mounting reliability as the FPC is held in a four-shrouded housing and is unaffected by the slider operation. Rotary Slider **Conventional Rotary Connector** XF2 Series **FPC Socket** 1. Mount the connector. 1. Mount the connector. **Upper Contact Lower Contact** 2.Release the rotary slider. 2. Insert the FPC 3. Lock the rotary slider. 3.Insert the FPC

Improvement 3

Double-sided contacts

No need to discriminate between the FPC upper and lower contacts.

Upper Contact

Lower Contact

Connector commonality makes it unnecessary to distinguish between the upper and lower contacts when connecting upper and lower PCBs.

Improvement 4

4.Lock the rotary slider.

Delivered with the rotary slider open (released).



Reduces the labor required to mount FPCs.

Assembly productivity is better than with the conventional rotary locking type, as release of the rotary slider is unnecessary.

XF2B/XF2N

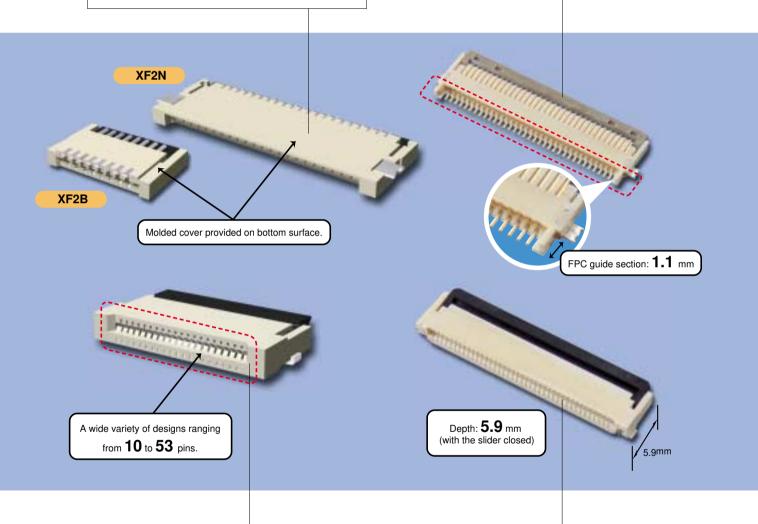
PCB design freedom increased with bottom wall and low profile.

The provision of a bottom wall eliminates exposure of terminals on the reverse side of the connector. The XF2N and XF2B have low on-board profiles of 0.9 mm and 1.2 mm respectively and the XF2B boasts a narrow pitch of 0.3 mm, contributing to downsizing of devices.

XF2R

Improved FPC insertion sensation.

The provision of an FPC guide section makes FPC insertion easier and improves work efficiency. The effective interface length has been increased to ensure greater reliability.



XF2H

Meeting a wide range of applications with a variety of models with between 10 and 53 pins.

Backed by reliability proved by many years of success and a new type of rotary lock construction, a broad range of models can be used to handle a wide range of applications.

XF2M

On-board mounting area approx. 27% less than the XF2H.

The depth has been significantly reduced to contribute to product downsizing.



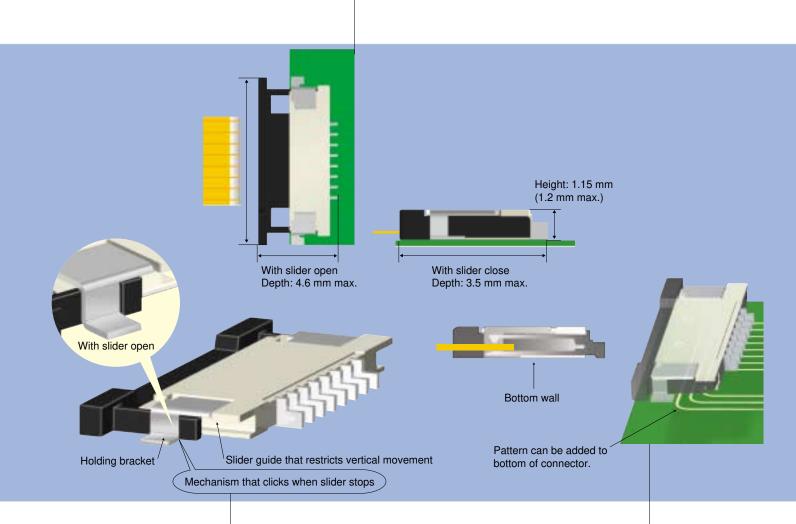
Features of XF2L Slide-locking Mechanism

Improvement 1

Occupies the smallest on-board area and volume in the industry.

Smallest on-board area and volume in the industry achieves reduced equipment size, thickness, and weight.

Ultra-compact size: 18.9 mm (W) $\mathring{A}\sim 3.5$ mm (D) $\mathring{A}\sim 1.2$ mm (H)*1 for 30-pin models. *1: A maximum of 1.2 mm including tolerance.



Improvement 2

Unique slider mechanism for stability and reliability.



Employs slider guide to restrict vertical movement and holding bracket to securely lock the slider.

The slider guide prevents rattling when the slider is opened and closed to allow smooth operation. The holding bracket prevents the slider from becoming detached after the connector has been assembled.

Improvement 3

Highest board design efficiency in the industry.



Wall on reverse side of connector enhances freedom of board design.

The wall on the reverse side of the connector prevents terminals from protruding. Circuit patterns can be added to the connector's

Rotary Backlock Type (0.3 mm-pitch)

XF2B

Rotary Backlock Mechanism and 0.3 mm-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 = 0.2 mm. Gold-plated type.
- Use FPCs with the construction recommended by OMRON. (Refer to specifications for details.)



■ Specifications

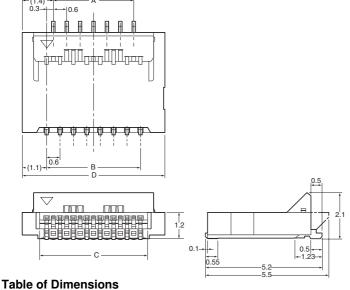
Rated current	0.2A AC/DC
Rated voltage	50V AC/DC
Contact resistance	50mΩ max. (at 20 mV max., 100 mA max.)
Insulation resistance	100M Ω min. (at 250V DC)
Withstand voltage	250V AC for 1 min. (leakage current: 1 mA max.)
Insertion tolerance	20 times
Ambient operating temperature	-30 to +85°C (with no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

■ Materials/Finish

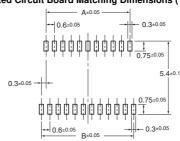
Housing	LCP resin (UL94V-0) / natural
Slider	LCP resin (UL94V-0) / black
	Spring copper alloy/nickel substrate (2µ m), gold-plated contacts (0.15µ m)

■ Dimensions

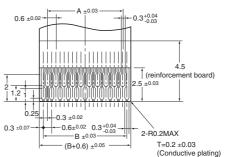
XF2B- 45-31A



Printed Circuit Board Matching Dimensions (Top View)



Applicable FPC Dimensions



Pins	Model	Α	В	С	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

■ Ordering Information

Pins note 1	Model	Quantity per reel note 2		
17	XF2B-1745-31A	1.500		
23	XF2B-2345-31A	1,300		

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

note 2. Order an integer multiple of the quantity per reel.

Low-profile Rotary Backlock Type (0.5 mm-pitch)

XF2N

Greater Freedom of Board Design with 0.9-mm **Profile and Bottom Wall**

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



■ Specifications

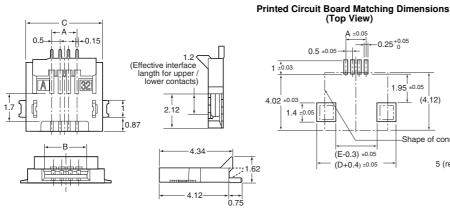
Rated current	0.3A AC/DC
Rated voltage	50V AC/DC
Contact resistance	40mΩ max. (at 20 mV max., 100 mA max.)
Insulation resistance	100 MΩ min. (at 250 V DC)
Withstand voltage	250V AC for 1 min. (leakage current: 1 mA max.)
Insertion tolerance	20 times
Ambient operating temperature	-30 to +85°C (with no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

■ Materials/Finish

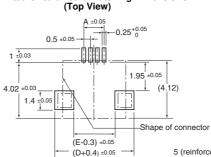
Housing	LCP resin (UL94V-0)/natural
Slider	LCP resin (UL94V-0)/black
Contact	Spring copper alloy/nickel substrate (1.5µ m), gold-plated contacts (0.15µ m)
Hold-down	Spring copper alloy/fused-tin plating (1.5µ m)

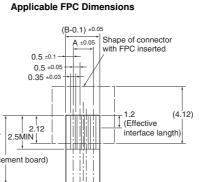
■ Dimensions











T=0.2 ±0.03 (Conductive plating)

Table of Dimensions

Pir	ns	Model	Α	В	С	D	Е
2	1	XF2N-2115-3	10.0	11.1	13.0	13.8	11.8
3	2	XF2N-3215-3	15.5	16.6	18.5	19.3	17.3

■ Ordering Information

Pins note 1	Model	Quantity per reel note 2	
21	XF2N-2115-3	3.000	
32	XF2N-3215-3	3,000	

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

note 2. Order an integer multiple of the quantity per reel.

Low-profile Rotary Backlock Type (0.5 mm-pitch)

XF2R

FPC Insertion Sensation and Work Efficiency Significantly, Improved with 0.9-mm Profile and FPC Guide Section • FPC insertion sensation greatly improved with 1.1-mm FPC guide section. The effective interface length for terminals has been increased to 1.4 The effective interface length for terminals has been increased to 1.4 The effective interface length for terminals has been increased to 1.4 The effective interface length for terminals has been increased to 1.4 The effective interface length for terminals has been increased to 1.4

- Applicable FPC thickness, t = 0.12 mm. Gold-plated type.
- Use FPCs with the construction recommended by OMRON. (Refer to specifications for details.)



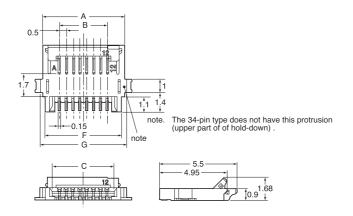
Rated current	0.3A AC/DC
Rated voltage	50V AC/DC
Contact resistance	40m Ω max. (at 20 mV max., 100 mA max.)
Insulation resistance	100 MΩ min. (at 250V DC)
Withstand voltage	250V AC for 1 min. (leakage current: 1 mA max.)
Insertion tolerance	20 times
Ambient operating temperature	-30 to +85°C (with no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

■ Materials/Finish

Housing	LCP resin (UL94V-0)/natural
Slider	LCP resin (UL94V-0)/brown
Contact	Spring copper alloy/nickel substrate (1.5µ m), gold-plated contacts (0.15µ m)
Hold-down	Spring copper alloy/fused-tin plating (1.5µ m)

■ Dimensions

XF2R- 15-4A



Printed Circuit Board Matching Dimensions (Top View)

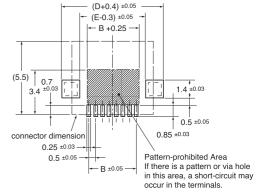
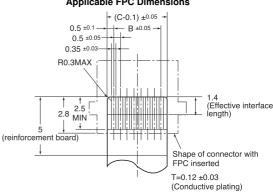


Table of Dimensions

Pins	Model	Α	В	С	D	Е	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	ı
40	XF2R-4015-4A	22.0	19.5	20.6	23.1	21.1	21.55	22.35

Applicable FPC Dimensions



■ Ordering Information

	•			
Pins note 1	Model	Pins note 1	Model	Quantity per reel note 2
6	XF2R-0615-4A	24	XF2R-2415-4A	
9	XF2R-0915-4A	34	XF2R-3415-4A	3,000
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.

Reduced-area Rotary Backlock Type (0.5 mm-pitch)

XF2M

Reduced-area Type Requires Approx. 27% Less On-board mounting area than the XF2H

- Short body with depth of 5.9 mm (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 mm.



■ Specifications

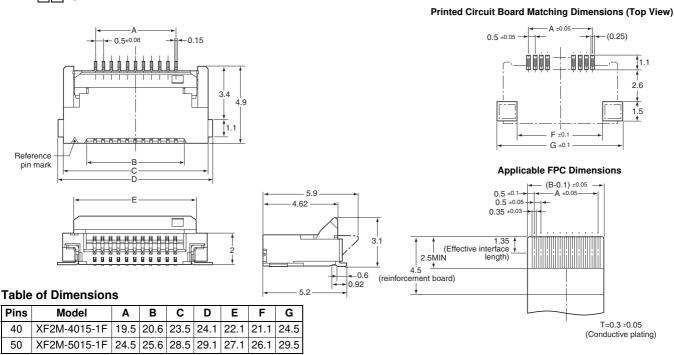
Rated current	0.5A AC/DC		
Rated voltage	50V AC/DC		
Contact resistance	40mΩ max. (at 20 mV max., 100 mA max.)		
Insulation resistance	100 MΩ min. (at 250V DC)		
Withstand voltage	250V AC for 1 min. (leakage current: 1 mA max.)		
Insertion tolerance	20 times		
Ambient operating temperature	-30 to +85°C (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 (2µ m), tin-alloy plating (2µ m)
Hold-down	Spring copper alloy/fused-tin plating (1.5µ m)

■ Dimensions

XF2M- □ □ 15-1F



■ Ordering Information

Pins note 1	Model	Quantity per reel note 2
40	XF2M-4015-1F	1.500
50	XF2M-5015-1F	1,300

note 1. Consult your OMRON representative for enquiries related to pin-number specifications. note 2 Order an integer multiple of the quantity per reel.

Standard Rotary Backlock Type (0.5 mm-pitch)

XF2H

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 in unnecessary.
- Applicable FPC thickness, t = 0.3 mm.



■ Specifications

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

■ Materials/Finish

Housing	PA6T resin (UL94V-0)/natural
Slider	LCP resin (UL94V-0)/black
Contact	Spring copper alloy/nickel substrate (2 μ m), tin-alloy plating (2 μ m)
Hold-down	Spring copper alloy/fused-tin plating (1.5µ m)

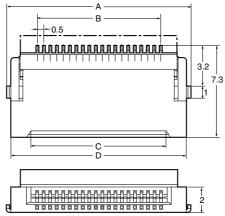
■ Dimensions

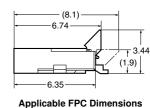
XF2H- 15-1LW



Table of Dimensions

Pins	Model	Α	В	С	D	Е	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	6.0	7.1	10.0	8.0	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	14.6	10.0	11.1	14.0	12.0	15.6
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	17.0	18.1	21.0	19.0	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	22.0	23.1	26.0	24.0	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





Printed Circuit Board Matching Dimensions (Top View)

0.5 ±0.05

0.35 ±0.03 1.7 (Effective interface length)

T=0.3 ±0.05 (Conductive plating)

- E ±0.1

F ±0.1

notePattern-prohibited Area
If there is a pattern or via hole in this area, a short-circuit may occur in the terminals.

1.5 2.2

- (0.25)

note

■ Ordering Information

Pins note 1	Model	Pins note 1	Model	Pins note 1	Model	Quantity per reel note 2
10	XF2H-1015-1LW	24	XF2H-2415-1LW	35	XF2H-3515-1LW	
12	XF2H-1215-1LW	25	XF2H-2515-1LW	36	XF2H-3615-1LW	
13	XF2H-1315-1LW	26	XF2H-2615-1LW	38	XF2H-3815-1LW	
14	XF2H-1415-1LW	28	XF2H-2815-1LW	40	XF2H-4015-1LW	1,500
18	XF2H-1815-1LW	30	XF2H-3015-1LW	42	XF2H-4215-1LW	1,500
20	XF2H-2015-1LW	32	XF2H-3215-1LW	45	XF2H-4515-1LW	
21	XF2H-2115-1LW	33	XF2H-3315-1LW	50	XF2H-5015-1LW	
22	XF2H-2215-1LW	34	XF2H-3415-1LW	53	XF2H-5315-1LW	

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

note 2. Order an integer multiple of the quantity per reel.

We will also accept small lot orders (for 100 or 500 units). When ordering, please specify model numbers that end with -R100 for 100 units or -R500 for 500 units.

ZIF Slide-locking Type (0.5 mm-pitch)

XF2L

Greater Freedom of Board Design with Smallest On-board Area in Industry and Bottom Wall

- Occupies the smallest on-board area and volume in the industry.
- Low on-board profile of only 1.2 mm max.
- Highest efficiency with board design surfaces in the industry with bottom wall preventing terminal exposure.
- Construction employs secure locking mechanism.
- Applicable FPC thickness, t = 0.3 mm.

■ Specifications

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

■ Materials/Finish

Model Ordering	XF2L (Upper-contact Type)	XF2L (Lower-contact Type)					
Housing	LCP resin (UL	resin (UL94V-0)/natural					
Slider	LCP resin (UL94V-0)/ black	LCP resin (UL94V-0)/ brown					
Contact	Spring copper alloy/ni tin-alloy plating (2 µ m	ickel substrate (2 µ m),					
Hold-down	Spring copper alloy/fus	ed-tin plating (1.5 µ m)					

■ Dimensions

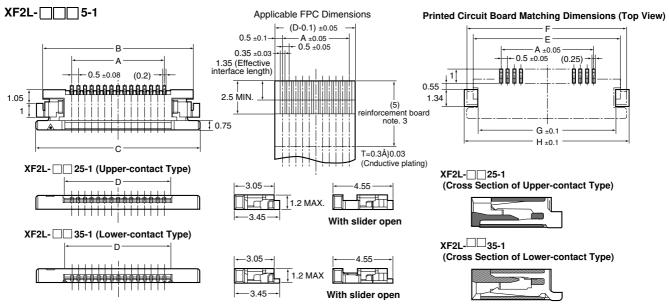


Table of Dimensions Upper-contact Type

Pins	Model	Α	В	С	D	Е	F	G	н
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

Pins	Model	Α	В	С	D	E	F	G	Н		
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	XF2L-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		

■ Ordering Information

Pins note 1	Туре	Model	Pins note 1	Туре	Model	Pins note 1	Туре	Model	Quantity per reel note 2
4	Upper-contact	XF2L-0425-1	10	Upper-contact	XF2L-1025-1	19	Lower-contact	XF2L-1935-1	
5	Lower-contact	XF2L-0535-1	10	Lower-contact	XF2L-1035-1	20	Lower-contact	XF2L-2035-1	
6	Upper-contact	XF2L-0625-1	12	Upper-contact	XF2L-1225-1	21	Upper-contact	XF2L-2125-1	
О	Lower-contact	XF2L-0635-1	12	Lower-contact	XF2L-1235-1	22	Lower-contact	XF2L-2235-1	
7	Upper-contact	XF2L-0725-1	13	Upper-contact	XF2L-1325-1	24	Lower-contact	XF2L-2435-1	3,000
,	Lower-contact	XF2L-0735-1	13	Lower-contact	XF2L-1335-1	26	Upper-contact	XF2L-2625-1	
8	Upper-contact	XF2L-0825-1	15	Lower-contact	XF2L-1535-1	30	Upper-contact	XF2L-3025-1	
0	Lower-contact	XF2L-0835-1	18	Upper-contact	XF2L-1825-1	30	Lower-contact	XF2L-3035-1	
9	Upper-contact	XF2L-0925-1	18	Lower-contact	XF2L-1835-1	-	_	_	<u> </u>

note 1. Consult your OMRON representative for enquiries related to pin-number and lead-free plating specifications.

note 2. Order an integer multiple of the quantity per reel.

note 3. Use polyimide and thermoset adhesive for reinforcement film material.

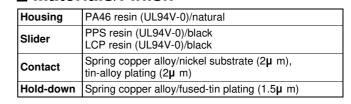
ZIF Slide-locking Type (0.5 mm-pitch)

XF2J

Top-entry ZIF Connector

- Low on-board profile of only 4.15 mm.
- Adhesion face on top of the connector suits automatic mounting.
- Models with reverse terminal arrangement also available.
- Applicable FPC thickness, t = 0.3 mm.

■ Materials/Finish



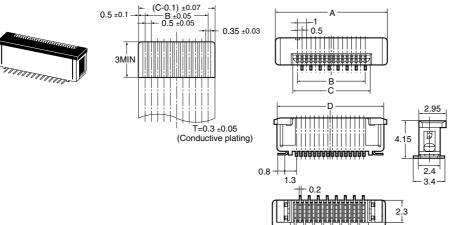
■ Specifications

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

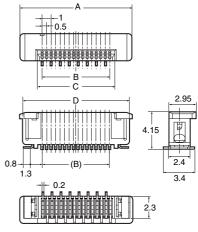
■ Dimensions



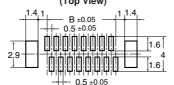




Reverse Terminal Arrangement



Printed Circuit Board Matching Dimensions (Top View)



Printed Circuit Board Matching Dimensions (Top View)

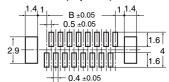


Table of Dimensions

	Мо	del				D
Pins	Standard Terminal Arrangement	Reverse Terminal Arrangement	Α	В	С	
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	1	19.5	14.5	15.6	18.9

■ Ordering Information

Dina	Мо	Oughtitus new read		
Pins note 1	Standard Terminal Arrangement	Reverse Terminal Arrangement	Quantity per reel note 2	
6	XF2J-0624-11	XF2J-0624-12		
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	1,000	
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	-	1	
28	XF2J-2824-11	-	1	
30	XF2J-3024-11	_	1	

note 1. Consult your OMRON representative for enquiries related to pin-number and lead-free plating specifications.

note 2. Order an integer multiple of the quantity per reel.

note 3. We will also accept small lot orders (for 100 or 500 units). When ordering, please specify model numbers that end with -R100 for 100 units or -R500 for 500 units.

Non-ZIF Type (0.5 mm-pitch)

XF2G

Top-entry ZIF Connector

- Low on-board profile of only 4.15 mm.
- Adhesion face on top of the connector suits automatic mounting.
- Applicable FPC thickness, t = 0.3 mm.



■ Specifications

Rated current	0.5A AC/DC
Rated voltage	50V AC/DC
Contact resistance	30m Ω max. (at 20 mV max., 100 mA max.)
Insulation resistance	100 MΩ min. (at 250V DC)
Withstand voltage	250V AC for 1 min. (leakage current: 1 mA max.)
Insertion tolerance	10 times
Ambient operating temperature	-30 to +85°C (with no icing or condensation)

В С

3.5 2.5

7.5 6.5

7.5

8.9

9.9 8.5 13.9 12.5 11.5

XF2G-2614-11 | 14.9 | 13.5 | 12.5

■ Materials/Finish

Housing PA46 resin (UL94V-0)/natural	
	Spring copper alloy/nickel substrate (2 μ m), tin-alloy plating (2 μ m)

■ Dimensions





Table of Dimensions

Model

XF2G-0614-11

XF2G-1414-11

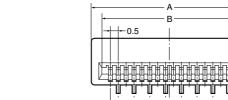
XF2G-1614-11

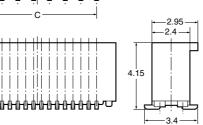
XF2G-2414-11

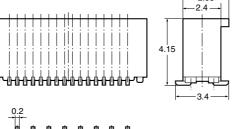
Pins

14

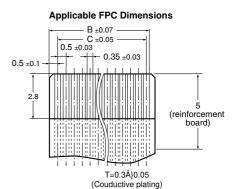
16







Printed Circuit Board Matching Dimensions (Top View)



■ Ordering	Information
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Pins note 1	Model	Quantity per reel note 2
6	XF2G-0614-11	
14	XF2G-1414-11	
16	XF2G-1614-11	1,000
24	XF2G-2414-11	
26	XF2G-2614-11	

note 1. Consult your OMRON representative for enquiries related to pin-number specifications. note 2 Order an integer multiple of the quantity per reel.

Non-ZIF Type (0.8 mm-pitch)

XF2E

- Low on-board profile of only 1.5 mm.
- Double-sided contacts maintain a stable contact force.
 Discrimination between FPC upper and lower contacts in unnecessary.
- Applicable FPC thickness, t = 0.3 mm..





■ Specifications

Rated current	0.5A AC/DC
Rated voltage	50V AC/DC
Contact resistance	30mΩ max. (at 20 mV max., 100 mA max.)
Insulation resistance	100 MΩ min. (at 250V DC)
Withstand voltage	500V AC for 1 min. (leakage current: 1 mA max.)
Insertion tolerance	10 times
Ambient operating temperature	-30 to +85°C (with no icing or condensation)

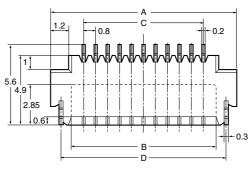
■ Materials/Finish

Housing Glass-filled modified PA resin (UL94V-0)/milk white	
	Spring copper alloy/nickel substrate (2µ m), tin-alloy plating (2µ m)
Hold-down	Copper-alloy/copper substrate (2µ m), tin-alloy plating (2µ m)

■ Dimensions

XF2E- 15-1







Applicable FPC Dimensions

(B-0.1) ±0.07

0.8 ±0.05

0.5 ±0.05

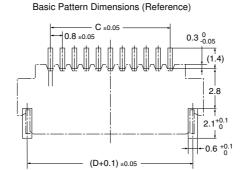
2.8

(Conductive plating)

0.1

Table of Dimensions

Pins	Model	Α	В	С	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-2015-1	19.6	16.9	15.2	18.2



■ Ordering Information

	•			
Pins note 1	Model	Pins note 1	Model	Quantity per reel note 2
5	XF2E-0515-1	10	XF2E-1015-1	
6	XF2E-0615-1	12	XF2E-1215-1	
7	XF2E-0715-1	15	XF2E-1515-1	4,000
8	XF2E-0815-1	17	XF2E-1715-1	
9	XF2E-0915-1	20	XF2E-2015-1	

note 1. Consult your OMRON representative for enquiries related to pin-number specifications. note 2. Order an integer multiple of the quantity per reel.

Common Precautions for XF2 Connectors

Precautions

Correct Use

Backlock Types

XF₂

- 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 slider locked. 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
Time	60 to 120 s	60 to 120 s
Soldering tem- perature	200 to 240°C	230 to 250°C
Time (10 s max. at the maximum temperature 240°C)	30 s max.	30 s max.

Storage

- 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.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

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

Cat. No. G011-E1-02 In the interest of product improvement, specifications are subject to change without notice.

OMRON Corporation

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