

0.5 mm-pitch Rotary-lock Type

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 is unnecessary.
- Low-profile, protruding only 2 mm on the PCB.

Specifications

Rated current	0.5 A
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 (2 μm) plated with tin alloy (2 μm)
Hold-down	Copper-alloy/copper substrate (2 μm) plated with tin alloy (2 μm)

Dimensions

XF2H-□□15-1

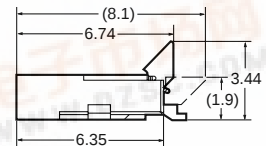
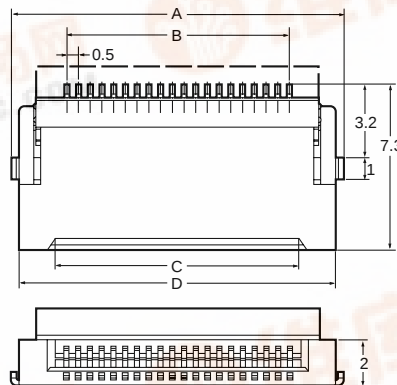
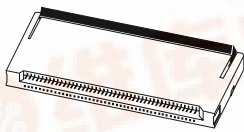
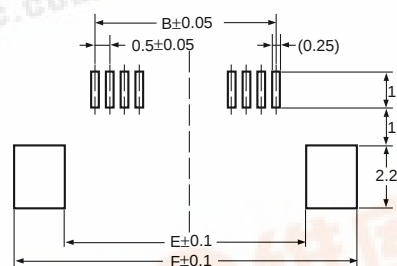


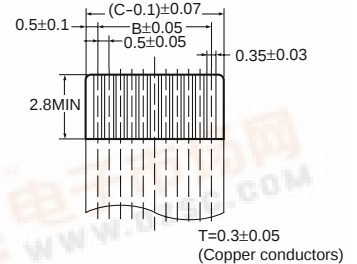
Table of Dimensions

Poles	Model	A	B	C	D	E	F
10	XF2H-1015-1	9.1	4.5	5.6	8.5	6.5	10.1
20	XF2H-2015-1	14.1	9.5	10.6	13.5	11.5	15.1
24	XF2H-2415-1	16.1	11.5	12.6	15.5	13.5	17.1
30	XF2H-3015-1	19.1	14.5	15.6	18.5	16.5	20.1
35	XF2H-3515-1	21.6	17.0	18.1	21.0	19.0	22.6
40	XF2H-4015-1	24.1	19.5	20.6	23.5	21.5	25.1
45	XF2H-4515-1	26.6	22.0	23.1	26.0	24.0	27.6
50	XF2H-5015-1	29.1	24.5	25.6	28.5	26.5	30.1

Printed Circuit Board Matching Dimensions (Top View)



Applicable FPC Dimensions



Ordering Information

Poles	Model	Quantity per reel*
10	XF2H-1015-1	1,500
20	XF2H-2015-1	
24	XF2H-2415-1	
30	XF2H-3015-1	
35	XF2H-3515-1	
40	XF2H-4015-1	
45	XF2H-4515-1	1,500
	XF2H-5015-1	

* Order an integer multiple of the quantity per reel.

0.5 mm-pitch ZIF-Slide Type

XF2J

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

Rated current	0.5 A
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 (2 μm) plated with tin alloy (2 μm)
Hold-down	Copper-alloy/copper substrate (2 μm) plated with tin alloy (2 μm)

Dimensions

XF2J-□□24-11

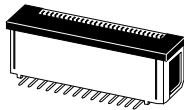
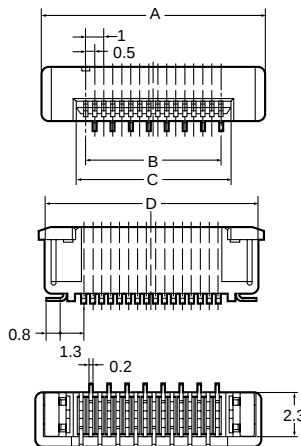
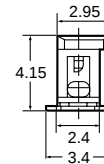
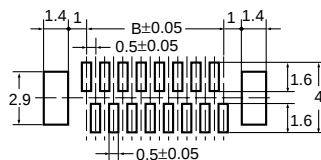


Table of Dimensions

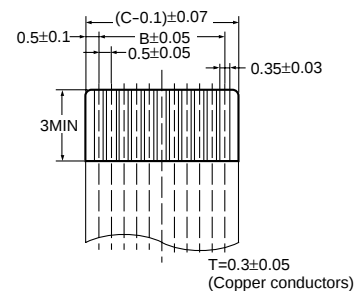
Poles	Model	A	B	C	D
6	XF2J-0624-11	7.5	2.5	3.6	6.9
8	XF2J-0824-11	8.5	3.5	4.6	7.9
12	XF2J-1224-11	10.5	5.5	6.6	9.9
14	XF2J-1424-11	11.5	6.5	7.6	10.9
16	XF2J-1624-11	12.5	7.5	8.6	11.9
22	XF2J-2224-11	15.5	10.5	11.6	14.9
28	XF2J-2824-11	18.5	13.5	14.6	17.9



Printed Circuit Board Matching Dimensions (Top View)



Applicable FPC Dimensions



Ordering Information

Poles	Model	Quantity per reel*
6	XF2J-0624-11	1,000
8	XF2J-0824-11	
12	XF2J-1224-11	
14	XF2J-1424-11	
16	XF2J-1624-11	
22	XF2J-2224-11	
28	XF2J-2824-11	

* Order an integer multiple of the quantity per reel.

Ultra-low-profile Connector (SMT Terminal) Side-entry Non-ZIF Type

XF2E

Optimum low-profile design.
Ultra-low-profile FPC/FFC connector only
1.5 mm above the PCB.

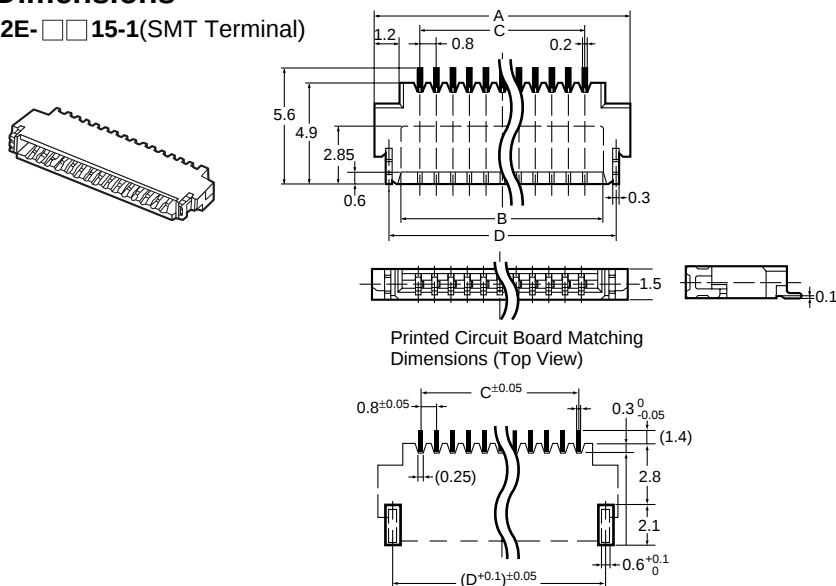
- Ultra-low-profile only 1.5 mm on the PCB allows mounting in spaces with restricted height.
- 0.8 mm-pitch SMT connectors allow high-density mounting.
- Modified-PA-resin housing is compatible with VPS, IR reflow, etc.
- Double-sided contacts maintain a stable contact force.
- Standard tape packing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

Specifications

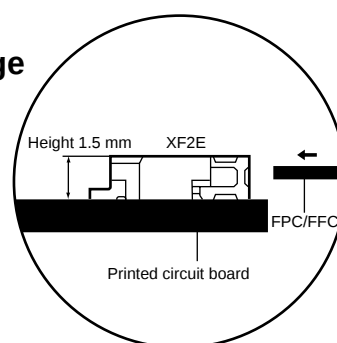
Rated current	0.5 A
Rated voltage	50 VDC
Contact resistance	30 m max. (max. 20 mV, max. 100 mA)
Insulation resistance	100 MΩmin. (at 100 VDC)
Withstand voltage	500 VAC 1 min. (leakage current: 1 mA max.)
Total insertion force	Poles x 2.0 N (200 gf) max.
Total removal force	Poles x 0.3 N (200 gf) max.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

Dimensions

XF2E-□□15-1(SMT Terminal)



Mounted Image



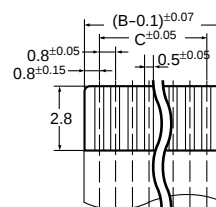
Materials/Finish

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

Table of Dimensions

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

Applicable FPC Dimensions



Ordering Information

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

* Order an integer multiple of the quantity per reel.

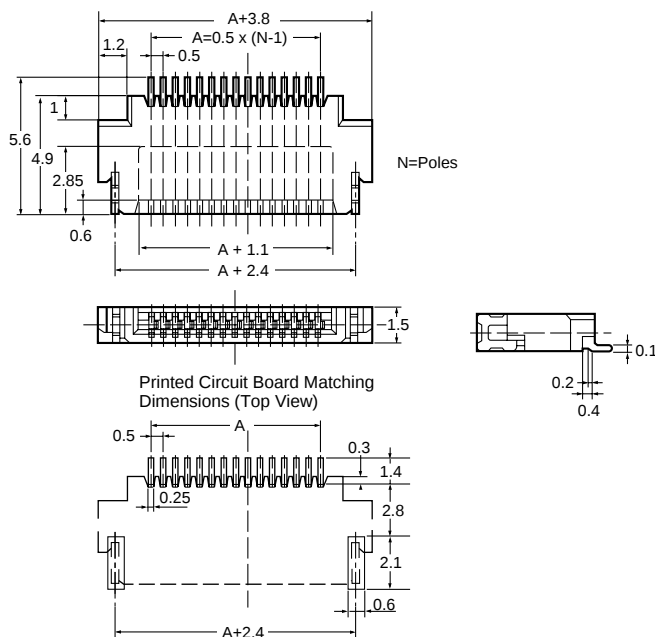
Non-ZIF Type

XF2K/XF2G

XF2K 0.5 mm-pitch Non-ZIF Type

- Low-profile, protruding only 1.5 mm on the PCB.
- Double-sided contacts maintain a stable contact force. Discrimination between FPC upper and lower contacts is unnecessary.

■ Dimensions



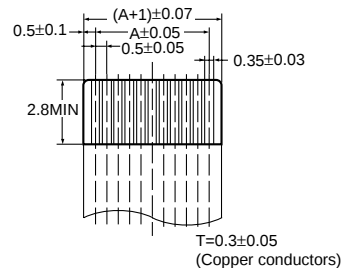
■ Poles

6

■ Quantity Per Reel

4,000

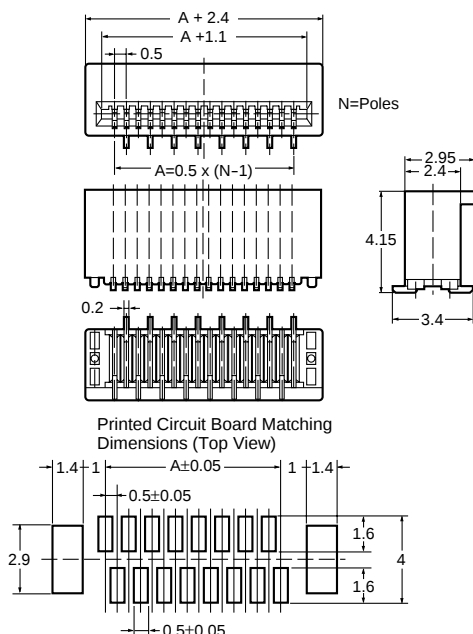
■ Applicable FPC Dimensions



XF2G 0.5 mm-pitch N-ZIF Type

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

■ Dimensions



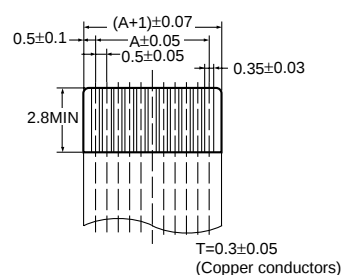
■ Poles

16, 20, 30

■ Quantity Per Reel

1,000

■ Applicable FPC Dimensions



Precautions

Recommended Reflow Conditions

Pre-heat
temperature: $150 \pm 10^{\circ}\text{C}$
Time: 60 to 120 seconds

Soldering
temperature: 200 to 240°C
Time: Not exceeding 30 seconds
(Not exceeding 10 seconds at 240°C maximum temperature.)

Storage

Do not store under high humidity levels as this may cause deterioration of the insulation.

Handling the FPC

Do not forcibly bend or pull an FPC which has been mounted and locked. This may cause discontinuities in the FPC.

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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-E1-01 In the interest of product improvement, specifications are subject to change without notice.

OMRON Corporation

C&C Components Division H.Q.

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