

# XF2M

Rotary Backlock Connector (0.5-mm Pitch, Double-sided Contact)

Rotary Lock Achieves High Reliability and Superior Work Efficiency.

- Double-sided contact reduces the number of parts.
- Applicable FPC thickness of 0.3 mm.
- Halogen Free (See note.)

Note: OMRON uses the following standard to determine halogen-free construction:  
900 ppm max. for Br, 900 ppm max. for Cl, and 1,500 ppm max. for Br+Cl.

## RoHS Compliant

## ■ Ratings and Specifications

XF2M-□□15-1A/1AH

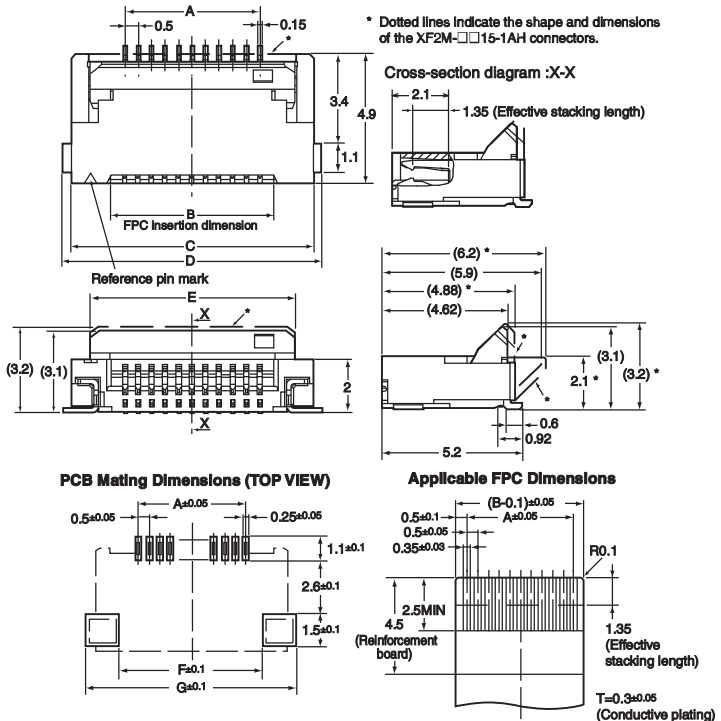
Rated current	0.5A AC/DC
Rated voltage	50V AC/DC
Contact resistance	50mΩ max. (at 20 mV DC max., 100 mA max.)
Insulation resistance	100MΩ min. (at 250V DC)
Withstand voltage	250V AC for 1 min. (leakage current: 1 mA max.)
Insertion tolerance	20 times
Ambient operating temperature	-30 to 85°C (with no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

## ■ Dimensions

XF2M-□□15-1A  
XF2M-□□15-1AH

Table of Dimensions

Pins (See *2)	Model (See *1)	A	B	C	D	E	F	G
10	XF2M-1015-1A	4.5	5.6	8.5	9.1	7.1	6.1	9.5
12	XF2M-1215-1A	5.5	6.6	9.5	10.1	8.1	7.1	10.5
14	XF2M-1415-1A	6.5	7.6	10.5	11.1	9.1	8.1	11.5
18	XF2M-1815-1A	8.5	9.6	12.5	13.1	11.1	10.1	13.5
20	XF2M-2015-1A	9.5	10.6	13.5	14.1	12.1	11.1	14.5
22	XF2M-2215-1A	10.5	11.6	14.5	15.1	13.1	12.1	15.5
24	XF2M-2415-1A	11.5	12.6	15.5	16.1	14.1	13.1	16.5
26	XF2M-2615-1A	12.5	13.6	16.5	17.1	15.1	14.1	17.5
30	XF2M-3015-1A	14.5	15.6	18.5	19.1	17.1	16.1	19.5
32	XF2M-3215-1A	15.5	16.6	19.5	20.1	18.1	17.1	20.5
33	XF2M-3315-1A	16.0	17.1	20.0	20.6	18.6	17.6	21.0
34	XF2M-3415-1A	16.5	17.6	20.5	21.1	19.1	18.1	21.5
35	XF2M-3515-1A	17.0	18.1	21.0	21.6	19.6	18.6	22.0
36	XF2M-3615-1A	17.5	18.6	21.5	22.1	20.1	19.1	22.5
38	XF2M-3815-1A	18.5	19.6	22.5	23.1	21.1	20.1	23.5
40	XF2M-4015-1A	19.5	20.6	23.5	24.1	22.1	21.1	24.5
42	XF2M-4215-1A	20.5	21.6	24.5	25.1	23.1	22.1	25.5
45	XF2M-4515-1A	22.0	23.1	26.0	26.6	24.6	23.6	27.0
50	XF2M-5015-1A	24.5	25.6	28.5	29.1	27.1	26.1	29.5
55	XF2M-5515-1AH	27.0	28.1	31.0	31.6	29.6	28.6	32.0
60	XF2M-6015-1AH	29.5	30.6	33.5	34.1	32.1	31.1	34.5



## ■ Ordering Information (Consult your trading company for the delivery date.)

Pins (See *2)	Model (See *1)	Pins (See *2)	Model (See *1)	Pins (See *2)	Model (See *1)	Quantity per reel (unit) (See *3)
10	XF2M-1015-1A	26	XF2M-2615-1A	38	XF2M-3815-1A	1,500
12	XF2M-1215-1A	30	XF2M-3015-1A	40	XF2M-4015-1A	
14	XF2M-1415-1A	32	XF2M-3215-1A	42	XF2M-4215-1A	
18	XF2M-1815-1A	33	XF2M-3315-1A	45	XF2M-4515-1A	
20	XF2M-2015-1A	34	XF2M-3415-1A	50	XF2M-5015-1A	
22	XF2M-2215-1A	35	XF2M-3515-1A	55	XF2M-5515-1AH	
24	XF2M-2415-1A	36	XF2M-3615-1A	60	XF2M-6015-1AH	

\*1. The end of the model number indicates the slider specification.  
None: Standard type H: For multiple type

\*2. Consult your OMRON representative for inquiries related to pin number specifications for the models under development and of other pin numbers not listed.

\*3. Order an integer multiple of the quantity per reel.

Note 1: Solder plating product (Specified by -1L at the end of model number) is discontinued since March 2006.

Note 2: Tin plating correspondence Pb free product (specified by -1DL) will be discontinued since March 2009.

[RoHS Compliant Status and Pin Number Line-up Status] Refer to the following website for the latest information. <http://www.omron.co.jp/ecb/>

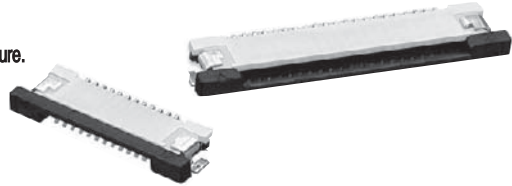
# XF2L

## ZIF Slide-locking Connector (0.5-mm Pitch)

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

- Smallest on-board area and volume in the industry.
- Low on-board height of only 1.2 mm.
- Highest board design surface efficiency in the industry with a bottom wall preventing terminal exposure.
- Construction with secure slider locking mechanism.
- Applicable FPC thickness of 0.3 mm.
- Halogen Free (See note.)

Note: OMRON uses the following standard to determine halogen-free construction:  
900 ppm max. for Br, 900 ppm max. for Cl, and 1,500 ppm max. for Br+Cl.



### RoHS Compliant

### ■ Ratings and Specifications

#### XF2L-□□□5-1A

Rated current	0.5A AC/DC
Rated voltage	50V AC/DC
Contact resistance	30mΩ max. (at 20 mV DC max., 100 mA max.)
Insulation resistance	100MΩ 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 and Finish

#### XF2L-□□□5-1A

Ordering Model	XF2L (Upper-contact Models)	XF2L (Lower-contact Models)
Housing	LCP resin (UL94V-0)/natural	
Slider	LCP resin (UL94V-0)/black	LCP resin (UL94V-0)/brown
Contacts	Spring copper alloy/nickel substrate (2μm) Gold-plated contacts (0.15μm)	
Hold-down	Spring copper alloy/fused-tin plating (1.5μm)	

### ■ Dimensions

#### XF2L-□□□5-1A

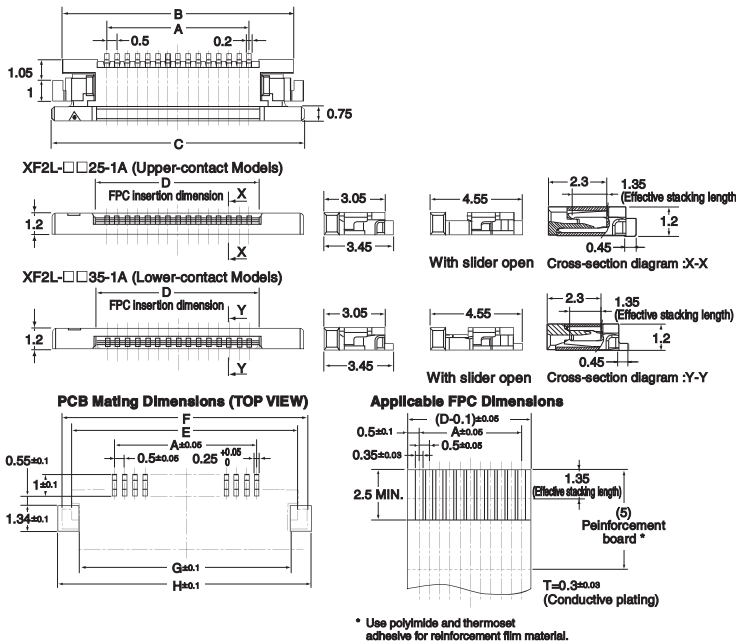


Table of Dimensions  
Upper-contact Models

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

Lower-contact Models

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

### ■ Ordering Information (Consult your trading company for the delivery date.)

Pins (See *1)	Type	Model	Pins (See *1)	Type	Model	Pins (See *1)	Type	Model	Quantity per reel (unit) (See *2)
4	Upper contact	XF2L-0425-1A	10	Upper contact	XF2L-1025-1A	19	Lower contact	XF2L-1935-1A	3,000
5	Lower contact	XF2L-0535-1A	10	Lower contact	XF2L-1035-1A	20	Lower contact	XF2L-2035-1A	
6	Upper contact	XF2L-0625-1A	12	Upper contact	XF2L-1225-1A	21	Upper contact	XF2L-2125-1A	
	Lower contact	XF2L-0635-1A		Lower contact	XF2L-1235-1A	22	Lower contact	XF2L-2235-1A	
7	Upper contact	XF2L-0725-1A	13	Upper contact	XF2L-1325-1A	24	Lower contact	XF2L-2435-1A	
	Lower contact	XF2L-0735-1A		Lower contact	XF2L-1335-1A	26	Upper contact	XF2L-2625-1A	
8	Upper contact	XF2L-0825-1A	15	Lower contact	XF2L-1535-1A	30	Upper contact	XF2L-3025-1A	
	Lower contact	XF2L-0835-1A		Upper contact	XF2L-1825-1A		Lower contact	XF2L-3035-1A	
9	Upper contact	XF2L-0925-1A	18	Lower contact	XF2L-1835-1A	-	-	-	

\*1. Consult your OMRON representative for inquiries related to pin number specifications.

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

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