

# XF2W

For FPC/FFC

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

### Rotary Backlock Mechanism with 0.5-mm Pitch and Low Profile of 1.1 mm

- Two models available: Low profile connector with a depth of 3.5 mm and easy-operation connector with long slider.
- Dual-sided contact reduces the number of parts.
- Wide molding wall on the rear bottom of the connector allows greater freedom in board design.
- Gold plated with an applicable FPC/FFC thickness of 0.3 mm.
- Halogen Free (\*)

\* 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

|                               |  |
|-------------------------------|--|
| Rated current                 | 0.5 A AC/DC                                      |
| Rated voltage                 | 50 V AC/DC                                       |
| Contact resistance            | 60 mΩ max. (at 20 mV DC max., 100 mA max.)       |
| Insulation resistance         | 100 MΩ min. (at 250 V DC)                        |
| Dielectric strength           | 250 V AC for 1 min. (leakage current: 1 mA max.) |
| Insertion durability          | 20 times   |
| Ambient operating temperature | -30 to 85 °C (With no icing or condensation)     |

#### ■ Materials and Finish

|           |   |
|-----------|---|
| Housing   | LCP resin (UL94 V-0)/natural  |
| Slider    | LCP resin (UL94 V-0)/brown  |
| Contacts  | Spring copper alloy/nickel substrate (2 μm)<br>Gold-plated contacts (0.15 μm) |
| Hold-down | Copper alloy/tin-plated (2 μm)  |

#### ■ Dimensions

(Unit: mm)

XF2W-□□15-1A

XF2W-□□15-1AE

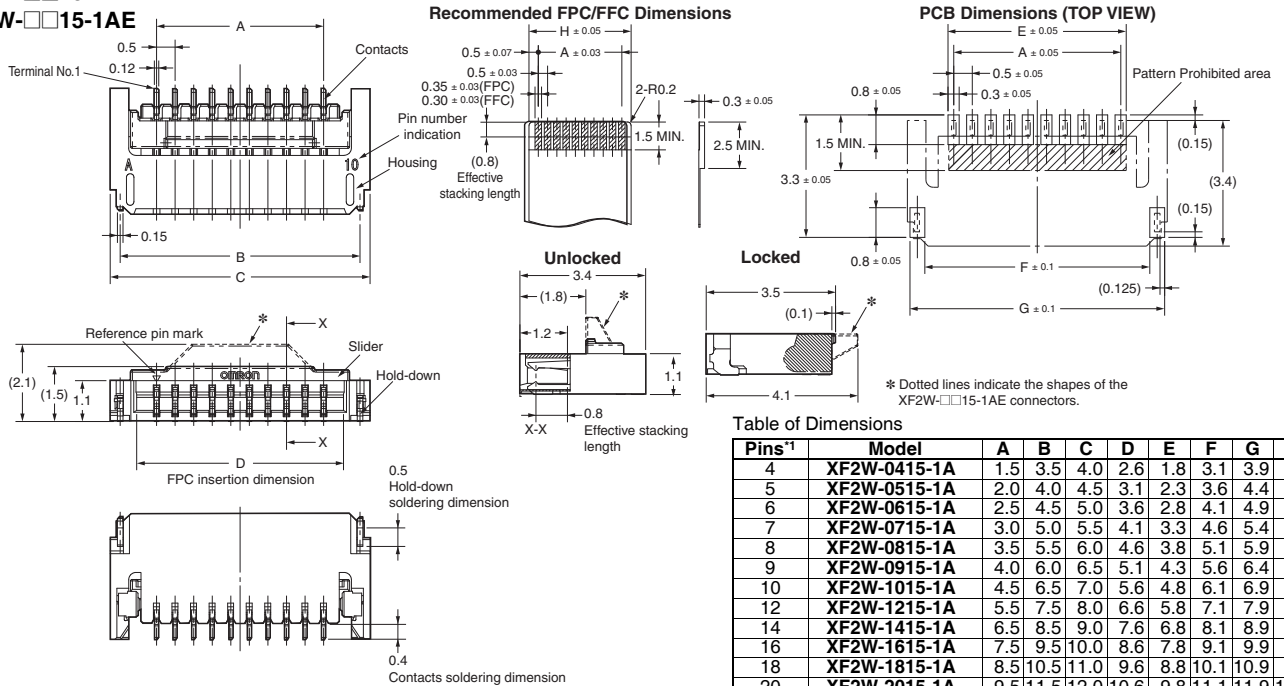


Table of Dimensions

| Pins <sup>1</sup> | Model         | A    | B    | C    | D    | E    | F    | G    | H    |
|-------------------|---------------|------|------|------|------|------|------|------|------|
| 4                 | XF2W-0415-1A  | 1.5  | 3.5  | 4.0  | 2.6  | 1.8  | 3.1  | 3.9  | 2.5  |
| 5                 | XF2W-0515-1A  | 2.0  | 4.0  | 4.5  | 3.1  | 2.3  | 3.6  | 4.4  | 3.0  |
| 6                 | XF2W-0615-1A  | 2.5  | 4.5  | 5.0  | 3.6  | 2.8  | 4.1  | 4.9  | 3.5  |
| 7                 | XF2W-0715-1A  | 3.0  | 5.0  | 5.5  | 4.1  | 3.3  | 4.6  | 5.4  | 4.0  |
| 8                 | XF2W-0815-1A  | 3.5  | 5.5  | 6.0  | 4.6  | 3.8  | 5.1  | 5.9  | 4.5  |
| 9                 | XF2W-0915-1A  | 4.0  | 6.0  | 6.5  | 5.1  | 4.3  | 5.6  | 6.4  | 5.0  |
| 10                | XF2W-1015-1A  | 4.5  | 6.5  | 7.0  | 5.6  | 4.8  | 6.1  | 6.9  | 5.5  |
| 12                | XF2W-1215-1A  | 5.5  | 7.5  | 8.0  | 6.6  | 5.8  | 7.1  | 7.9  | 6.5  |
| 14                | XF2W-1415-1A  | 6.5  | 8.5  | 9.0  | 7.6  | 6.8  | 8.1  | 8.9  | 7.5  |
| 16                | XF2W-1615-1A  | 7.5  | 9.5  | 10.0 | 8.6  | 7.8  | 9.1  | 9.9  | 8.5  |
| 18                | XF2W-1815-1A  | 8.5  | 10.5 | 11.0 | 9.6  | 8.8  | 10.1 | 10.9 | 9.5  |
| 20                | XF2W-2015-1A  | 9.5  | 11.5 | 12.0 | 10.6 | 9.8  | 11.1 | 11.9 | 10.5 |
| 24                | XF2W-2415-1A  | 11.5 | 13.5 | 14.0 | 12.6 | 11.8 | 13.1 | 13.9 | 12.5 |
| 26                | XF2W-2615-1A  | 12.5 | 14.5 | 15.0 | 13.6 | 12.8 | 14.1 | 14.9 | 13.5 |
| 40                | XF2W-4015-1A  | 19.5 | 21.5 | 22.0 | 20.6 | 19.8 | 21.1 | 21.9 | 20.5 |
| 45                | XF2W-4515-1AE | 22.0 | 24.0 | 24.5 | 23.1 | 22.3 | 23.6 | 24.4 | 23.0 |
| 50                | XF2W-5015-1AE | 24.5 | 26.5 | 27.0 | 25.6 | 24.8 | 26.1 | 26.9 | 25.5 |
| 55                | XF2W-5515-1AE | 27.0 | 29.0 | 29.5 | 28.1 | 27.3 | 28.6 | 29.4 | 28.0 |
| 60                | XF2W-6015-1AE | 29.5 | 31.5 | 32.0 | 30.6 | 29.8 | 31.1 | 31.9 | 30.5 |
| 64                | XF2W-6415-1AE | 31.5 | 33.5 | 34.0 | 32.6 | 31.8 | 33.1 | 33.9 | 32.5 |

#### ■ Ordering Information

2000pcs per reel

| Pins <sup>1</sup> | Model        | Pins <sup>1</sup> | Model        | Pins <sup>1</sup> | Model        | Pins <sup>1</sup> | Model         | Quantity per reel (unit) <sup>2</sup> |
|-------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|---------------|---------------------------------------|
| 4                 | XF2W-0415-1A | 9                 | XF2W-0915-1A | 18                | XF2W-1815-1A | 45                | XF2W-4515-1AE | 2,000                                 |
| 5                 | XF2W-0515-1A | 10                | XF2W-1015-1A | 20                | XF2W-2015-1A | 50                | XF2W-5015-1AE |                                       |
| 6                 | XF2W-0615-1A | 12                | XF2W-1215-1A | 24                | XF2W-2415-1A | 55                | XF2W-5515-1AE |                                       |
| 7                 | XF2W-0715-1A | 14                | XF2W-1415-1A | 26                | XF2W-2615-1A | 60                | XF2W-6015-1AE |                                       |
| 8                 | XF2W-0815-1A | 16                | XF2W-1615-1A | 40                | XF2W-4015-1A | 64                | XF2W-6415-1AE |                                       |

100pcs per reel

| Pins <sup>1</sup> | Model             | Pins <sup>1</sup> | Model             | Pins <sup>1</sup> | Model              | Pins <sup>1</sup> | Model              | Quantity per reel (unit) <sup>2</sup> |
|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|--------------------|---------------------------------------|
| 4                 | XF2W-0415-1A-R100 | 9                 | XF2W-0915-1A-R100 | 20                | XF2W-2015-1A-R100  | 50                | XF2W-5015-1AE-R100 | 100                                   |
| 5                 | XF2W-0515-1A-R100 | 10                | XF2W-1015-1A-R100 | 24                | XF2W-2415-1A-R100  | 55                | XF2W-5515-1AE-R100 |                                       |
| 6                 | XF2W-0615-1A-R100 | 14                | XF2W-1415-1A-R100 | 26                | XF2W-2615-1A-R100  | 60                | XF2W-6015-1AE-R100 |                                       |
| 7                 | XF2W-0715-1A-R100 | 16                | XF2W-1615-1A-R100 | 40                | XF2W-4015-1A-R100  | 64                | XF2W-6415-1AE-R100 |                                       |
| 8                 | XF2W-0815-1A-R100 | 18                | XF2W-1815-1A-R100 | 45                | XF2W-4515-1AE-R100 |                   |                    |                                       |

\*1. Please consult your OMRON representative for available pin count.

\*2. Please order by integer multiple of the quantity per reel.

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