

XF2B

For FPC

Rotary Backlock Connector (0.3-mm Pitch, Dual Contact)

Rotary Backlock Mechanism with 0.3-mm Pitch

- Wide molding wall on the rear bottom of the connector allows greater freedom in board design.
- Dual contact reduces the number of parts.
- Gold plated with an applicable FPC thickness of 0.2 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.

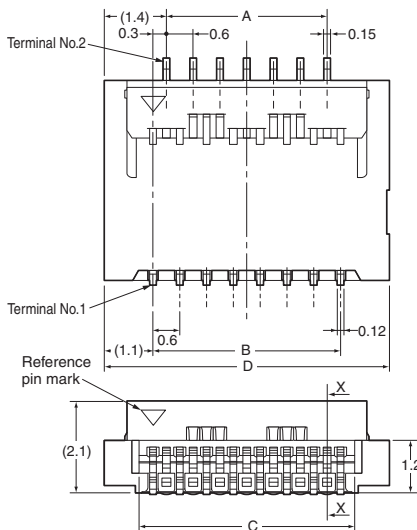
RoHS compliant

■ Ratings and Specifications

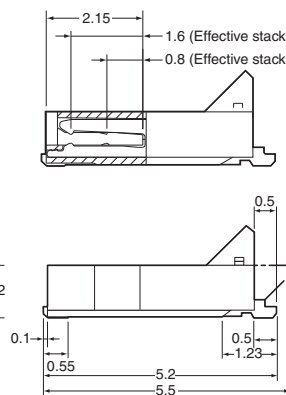
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|-------------------------------|--|
| Rated current | 0.2 A AC/DC |
| Rated voltage | 50 V AC/DC |
| Contact resistance | 50 mΩ max. (at 20 mV DC max., 100 mA max.) |
| Insulation resistance | 100 MΩ min. (at 250 V DC) |
| Dielectric strength | 250 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) |

■ Dimensions

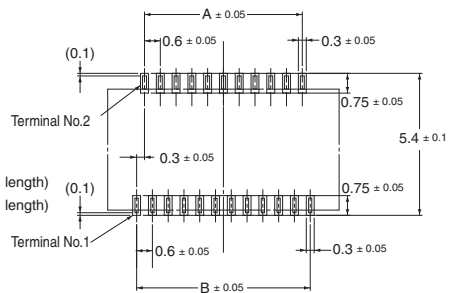
XF2B-□□□5-31A



Cross-section diagram: X-X



PCB Dimensions (TOP VIEW)



Recommended FPC Dimensions

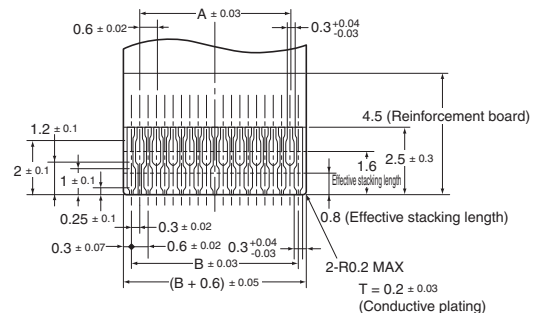


Table of Dimensions

| Pins*1 | Model | A | B | C | D |
|--------|---------------|------|------|------|------|
| 17 | XF2B-1745-31A | 4.2 | 4.8 | 5.5 | 7.0 |
| 21 | XF2B-2145-31A | 5.4 | 6.0 | 6.7 | 8.2 |
| 23 | XF2B-2345-31A | 6.0 | 6.6 | 7.3 | 8.8 |
| 25 | XF2B-2545-31A | 6.6 | 7.2 | 7.9 | 9.4 |
| 27 | XF2B-2745-31A | 7.2 | 7.8 | 8.5 | 10.0 |
| 31 | XF2B-3145-31A | 8.4 | 9.0 | 9.7 | 11.2 |
| 33 | XF2B-3345-31A | 9.0 | 9.6 | 10.3 | 11.8 |
| 35 | XF2B-3545-31A | 9.6 | 10.2 | 10.9 | 12.4 |
| 39 | XF2B-3945-31A | 10.8 | 11.4 | 12.1 | 13.6 |
| 41 | XF2B-4145-31A | 11.4 | 12.0 | 12.7 | 14.2 |
| 45 | XF2B-4545-31A | 12.6 | 13.2 | 13.9 | 15.4 |
| 51 | XF2B-5145-31A | 14.4 | 15.0 | 15.7 | 17.2 |
| 61 | XF2B-6155-31A | 17.4 | 18.0 | 18.7 | 20.2 |

■ Ordering Information

| Pins*1 | Model | Pins*1 | Model | Quantity per reel (unit) *2 |
|--------|---------------|--------|------------------|-----------------------------|
| 17 | XF2B-1745-31A | 35 | XF2B-3545-31A | 1,500 |
| 21 | XF2B-2145-31A | 39 | XF2B-3945-31A | |
| 23 | XF2B-2345-31A | 41 | XF2B-4145-31A | |
| 25 | XF2B-2545-31A | 45 | XF2B-4545-31A | |
| 27 | XF2B-2745-31A | 51 | XF2B-5145-31A | |
| 31 | XF2B-3145-31A | 61 | XF2B-6155-31A *3 | |
| 33 | XF2B-3345-31A | - | - | |

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

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

*3. Upper contact.