Low-profile Rotary Backlock Type (0.5 mm-pitch) XF2R

Easier FPC Insertion and Improved Work Efficiency with 0.9-mm Profile and FPC Guide Section

- Easier FPC insertion with 1.1-mm FPC guide section.
- The effective interface length for terminals has been increased to 1.4 mm to ensure stability in applications with a lot of movement.
- Double-sided (upper and lower) contact structure enables component reductions.
- Applicable FPC thickness, t = 0.12 mm. Gold-plated type.
- Use FPCs with the construction recommended by OMRON. (Refer to specifications for details.)
- RoHS Compliant.



Ordering Information

Pins (Note 1)	Quantity per reel (Note 2)	Model	
6	3,000	XF2R-0615-4A	
9		XF2R-0915-4A	
18		XF2R-1815-4A	
24		XF2R-2415-4A	
34		XF2R-3415-4A	
40		XF2R-4015-4A	

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

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

Specifications

Rated current	0.3A AC/DC	
Rated voltage	50V AC/DC	
Contact resistance	40 mΩ max. (at 20 mV max., 100 mA max.)	
Insulation resistance	e 100 MΩmin. (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 (1.5μm), gold-plated contacts (0.15μm)	
Hold-down	Spring copper alloy/fused-tin plating (1.5µm)	

Dimensions

Unit: mm

XF2R-□□15-4A

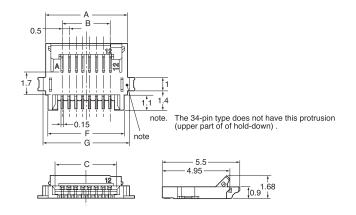
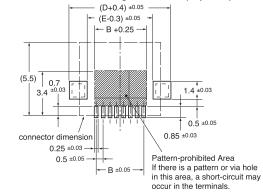


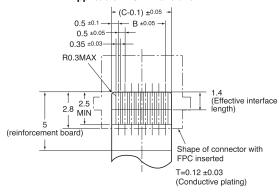
Table of Dimensions

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

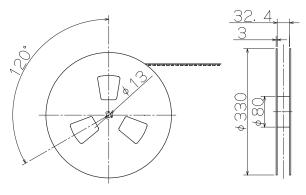
Printed Circuit Board Matching Dimensions (Top View)

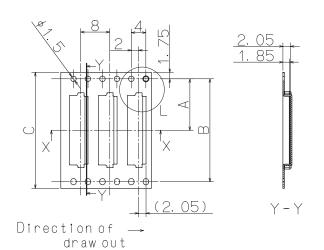


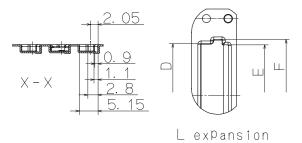
Applicable FPC Dimensions



■ Tape and Reel Dimensions







Emboss taping specification (Based on taping of electronic parts [JIS 0806])

Omron Electronic Components, LLC

Terms and Conditions of Sales

I. GENERAL

Definitions: The words used herein are defined as follows:

Terms: These terms and conditions

Seller: Omron Electronic Components LLC and its subsidiaries

The buyer of Products, including any end user in section III through VI Products and/or services of Seller Buyer:

Products: (d)

Including without limitation Including:

- Offer: Acceptance: These Terms are deemed part of all quotations, acknowledgments, invoices, purchase orders and other documents, whether electronic or in writing, relating to the sale of Products by Seller. Seller hereby objects to any Terms proposed in Buyer's purchase order or other documents which are inconsistent with, or in addition to, these
- Distributor: Any distributor shall inform its customer of the contents after and including

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- Currencies: If the prices quoted herein are in a currency other than U.S. dollars, Buyer shall make remittance to Seller at the then current exchange rate most favorable to Seller; provided that if remittance is not made when due, Buyer will convert the amount to U.S. dollars at the then current exchange rate most favorable to Seller available during the period between the due date and the date remittance is actually made.
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- Force Majeure: Seller shall not be liable for any delay or failure in delivery resulting from causes beyond its control, including earthquakes, fires, floods, strikes or other labor disputes, shortage of labor or materials, accidents to machinery, acts of sabotage, riots, delay in or lack of transportation or the requirements of any government authority.

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(a) All sales and shipments of Products shall be FOB shipping point (unless otherwise stated in writing by Seller), at which point title to and all risk of loss of the Products shall pass from Seller to Buyer, provided that Seller shall retain a security interest in the Products until the full purchase price is paid by Buyer;

Delivery and shipping dates are estimates only; and

- Seller will package Products as it deems proper for protection against normal
- handling and extra charges apply to special conditions.

 12. Claims: Any claim by Buyer against Seller for shortage or damage to the Products occurring before delivery to the carrier must be presented in detail in writing to Seller within 30 days of receipt of shipment.

III. PRECAUTIONS

- Suitability: IT IS THE BUYER'S SOLE RESPONSIBILITY TO ENSURE THAT ANY OMRON PRODUCT IS FIT AND SUFFICIENT FOR USE IN A MOTORIZED VEHICLE APPLICATION. BUYER SHALL BE SOLELY RESPONSIBLE FOR DETERMINING APPLICATION. BUTER SHALL BE SOLELY RESPONSIBLE FOR DETERMINING APPROPRIATENESS OF THE PARTICULAR PRODUCT WITH RESPECT TO THE BUYER'S APPLICATION INCLUDING (A) ELECTRICAL OR ELECTRONIC COMPONENTS, (B) CIRCUITS, (C) SYSTEM ASSEMBLIES, (D) END PRODUCT, (E) SYSTEM, (F) MATERIALS OR SUBSTANCES OR (G) OPERATING ENVIRONMENT. Buyer acknowledges that it alone has determined that the Products will meet their requirements of the intended use in all cases. Buyer must know and observe all prohibitions of use applicable to the Product/s.
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 - Use in consumer Products or any use in significant quantities.

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- Motorized Vehicle Application: USE OF ANY PRODUCT/S FOR A MOTORIZED VEHICLE APPLICATION MUST BE EXPRESSLY STATED IN THE SPECIFICATION BY
- Programmable Products: Seller shall not be responsible for the Buyer's programming of a programmable Product

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- Warranty: Seller's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Seller (or such other period expressed in writing by Seller). SELLER MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT ALL OTHER WARRANTIES, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS.
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- Errors And Omissions: The information on Seller's website or in other documentation has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.
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- Waiver: No failure or delay by Seller in exercising any right and no course of dealing between Buyer and Seller shall operate as a waiver of rights by Seller.
- Assignment: Buyer may not assign its rights hereunder without Seller's written consent. Law: These Terms are governed by Illinois law (without regard to conflict of laws). Federal
- and state courts in Illinois have exclusive jurisdiction for any dispute hereunder.
- Amendment: These Terms constitute the entire agreement between Buyer and Seller relating to the Products, and no provision may be changed or waived unless in writing signed by the parties.
- Severability: If any provision hereof is rendered ineffective or invalid, such provision shall not invalidate any other provision.

Certain Precautions on Specifications and Use

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 - (ii) Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations
 - regulations.

 (iii) Use in consumer products or any use in significant quantities.
 - (iv) Systems, machines and equipment that could present a risk to life or property. Please know and observe all prohibitions of use applicable to this product

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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.

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