

2.92mm Female Connector Clamp/Solder Attachment 4 Hole Flange for FM-SR034CU-ST, .034 Semi-Rigid Cable



FMCN51268

Configuration

- 2.92mm Female Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: FM-SR034CU-ST, .034 Semi-Rigid
- 4 Hole Flange

Features

- Operating Frequency of 40 GHz Max.
- Excellent VSWR of 1.25:1
- Gold over Nickel Plated Beryllium Copper Contact

Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

Description

2.92mm Female 4 hole Flange Mount Standard 4 hole Flange Mount Connector Clamp/Solder Attachment for FM-SR034CU-ST and .034 Semi-Rigid Cable, part number FMCN51268, from Fairview Microwave is in-stock and ships same day. This 2.92mm female connector operates up to a maximum frequency of 40 GHz and offers excellent VSWR of 1.25:1. Fairview's FMCN51268 4 hole flange 2.92mm connector enables designers to make external connections on product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Fairview's 2.92mm female 4 hole flange connector FMCN51268 datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them same-day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
VSWR			1.25:1	
Insertion Loss			0.252	dB
Operating Voltage (AC)			250	Vrms
Dielectric Withstanding Voltage (AC)			750	Vrms
Inner Conductor DC Resistance			3	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms
RF Leakage	100			dB
Impedance		50		Ohms

Electrical Specification Notes:

Insertion loss is = $0.04 * \sqrt{F(\text{GHz})}$ dB

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Mechanical Specifications

Size

Length	0.244094 in [6.2 mm]
Width	0.244094 in [6.2 mm]
Height	0.606299 in [15.4 mm]
Weight	0.015 lbs [6.8 g]
Mating Cycles	500 Cycles
Mating Torque	11.47 to 15 in-lbs [[1.30 to 1.70 Nm]]
Cable Retention Force	4.9 lbs [2.22 kg]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel
Insulation	PPO	
Body	Stainless Steel	Passivated
Coupling Nut	Stainless Steel	Passivated
Solder Sleeve	Brass	Gold over Nickel

Environmental Specifications

Temperature

Operating Range	-55 to +105 deg C
Thermal Shock	MIL-STD-202, Method 107, Condition B

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

2.92mm Female Connector Clamp/Solder Attachment 4 Hole Flange for FM-SR034CU-ST, .034 Semi-Rigid Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

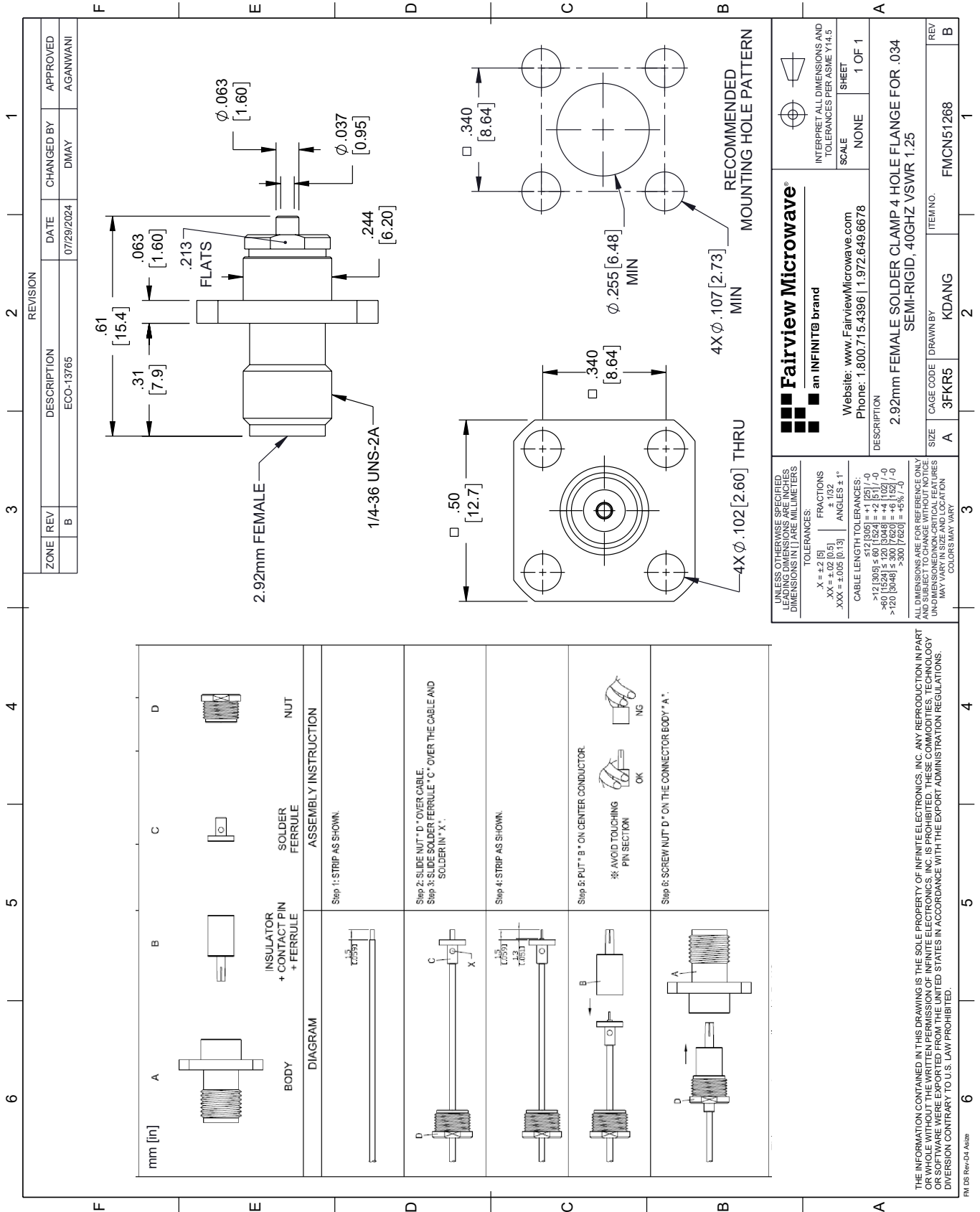
For additional information on this product, please click the following link: [2.92mm Female Connector Clamp/Solder Attachment 4 Hole Flange for FM-SR034CU-ST, .034 Semi-Rigid Cable FMCN51268](#)

URL: <https://www.fairviewmicrowave.com/2.92mm-female-fm-sr034cu-st-.034-semi-rigid-connector-fmcn51268-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

FMCN51268 CAD Drawing

2.92mm Female Connector Clamp/Solder Attachment 4 Hole Flange for FM-SR034CU-ST, .034 Semi-Rigid Cable



REVISION		DESCRIPTION	DATE	CHANGED BY	APPROVED
ZONE	REV	ECO-13765	07/29/2024	DMAY	AGANWANI
	B				

 Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
DESCRIPTION 2.92mm FEMALE SOLDER CLAMP 4 HOLE FLANGE FOR .034 SEMI-RIGID, 40GHZ VSWR 1.25		
SIZE	CAGE CODE	ITEM NO.
A	3FKR5	FMCN51268
SIZE	DRAWN BY	REV
A	KDANG	B

mm [in]	A	B	C	D
	DIAGRAM			
	ASSEMBLY INSTRUCTION			
	Step 1: STRIP AS SHOWN.			
	Step 2: SLIDE NUT "D" OVER CABLE.			
	Step 3: SLIDE SOLDER FERRULE "C" OVER THE CABLE AND SOLDER IN "X".			
	Step 4: STRIP AS SHOWN.			
	Step 5: PUT "B" ON CENTER CONDUCTOR.			
	* AVOID TOUCHING PIN SECTION			
	Step 6: SCREW NUT "D" ON THE CONNECTOR BODY "A".			

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:
 .X = ±.2 [5]
 .XX = ±.02 [0.5]
 .XXX = ±.005 [0.13]

FRACTIONS: ± 1/32
 ANGLES: ± 1°

CABLE LENGTH TOLERANCES:
 <12 [305] ≤ 60 [1524] = ±.2 [5] / -0
 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0
 >120 [3048] ≤ 300 [7620] = ±.8 [20] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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FM DS Rev-D4 Alt26