

3.5mm Female Bulkhead Connector Clamp/Solder Attachment for FM-SR047ALTN-COIL, FM-SR047CU-COIL, FM-SR047CUTN-COIL, .047 Semi-Rigid Cable



**FMCN51278**

**Configuration**

- 3.5mm Female Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: FM-SR047ALTN-COIL, FM-SR047CU-COIL, FM-SR047CUTN-COIL, .047 Semi-Rigid
- Bulkhead

**Features**

- Operating Frequency of 26.5 MHz 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**

3.5mm Female Bulkhead Standard Bulkhead Connector Clamp/Solder Attachment for FM-SR047ALTN-COIL, FM-SR047CU-COIL, FM-SR047CUTN-COIL and .047 Semi-Rigid Cable, part number FMCN51278, from Fairview Microwave is in-stock and ships same day. This 3.5mm female connector operates up to a maximum frequency of 26.5 MHz and offers excellent VSWR of 1.25:1. Fairview's FMCN51278 bulkhead 3.5mm 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 3.5mm female bulkhead connector FMCN51278 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		26.5	MHz
VSWR			1.25:1	
Insertion Loss			0.154	dB
Operating Voltage (AC)			250	Vrms
Dielectric Withstanding Voltage (AC)			750	Vrms
Inner Conductor DC Resistance			3	mOhms
Outer Conductor DC Resistance			2	mOhms
RF Leakage	100			dB
Impedance		50		Ohms

Electrical Specification Notes:  
Insertion loss is =  $0.03 * \sqrt{F(\text{GHz})}$  dB

**Mechanical Specifications**

<b>Size</b>	
Length	0.401575 in [10.2 mm]
Width	0.401575 in [10.2 mm]

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Height	0.84252 in [21.4 mm]
Weight	0.015 lbs [6.8 g]
Mating Cycles	500 Cycles
Mating Torque	7.1 to 15 in-lbs [[0.80 to 1.70 Nm]]
Cable Retention Force	6.1 lbs [2.77 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	Stainless Steel	Passivated
Washer	Stainless Steel	Passivated

**Environmental Specifications**

<b>Temperature</b>	
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:

3.5mm Female Bulkhead Connector Clamp/Solder Attachment for FM-SR047ALTN-COIL, FM-SR047CU-COIL, FM-SR047CUTN-COIL, .047 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.

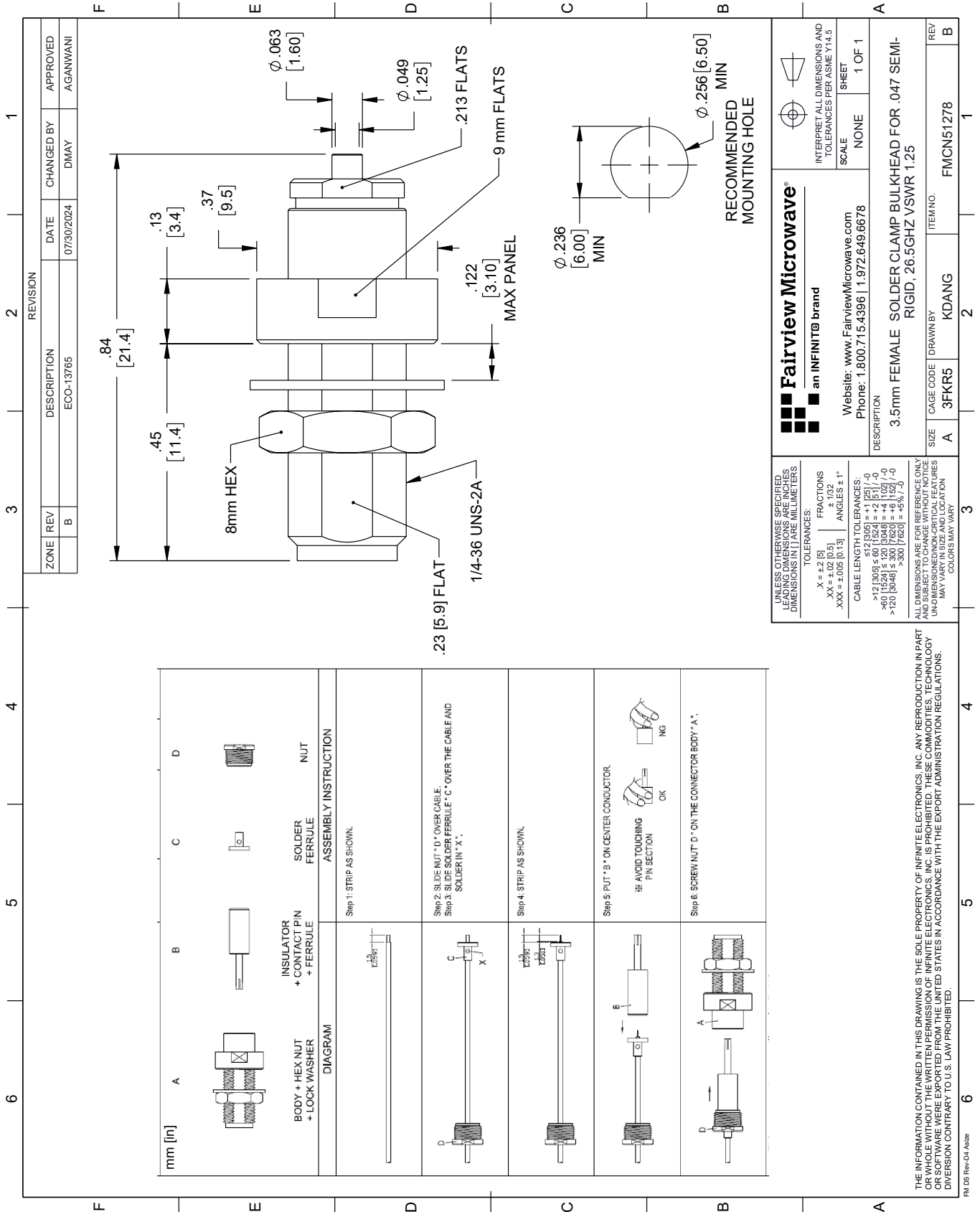
For additional information on this product, please click the following link: [3.5mm Female Bulkhead Connector Clamp/Solder Attachment for FM-SR047ALTN-COIL, FM-SR047CU-COIL, FM-SR047CUTN-COIL, .047 Semi-Rigid Cable FMCN51278](#)

URL: <https://www.fairviewmicrowave.com/3.5mm-female-fm-sr047altn-coil-fm-sr047cu-coil-fm-sr047cutn-coil-.047-semi-rigid-connector-fmcn51278-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.

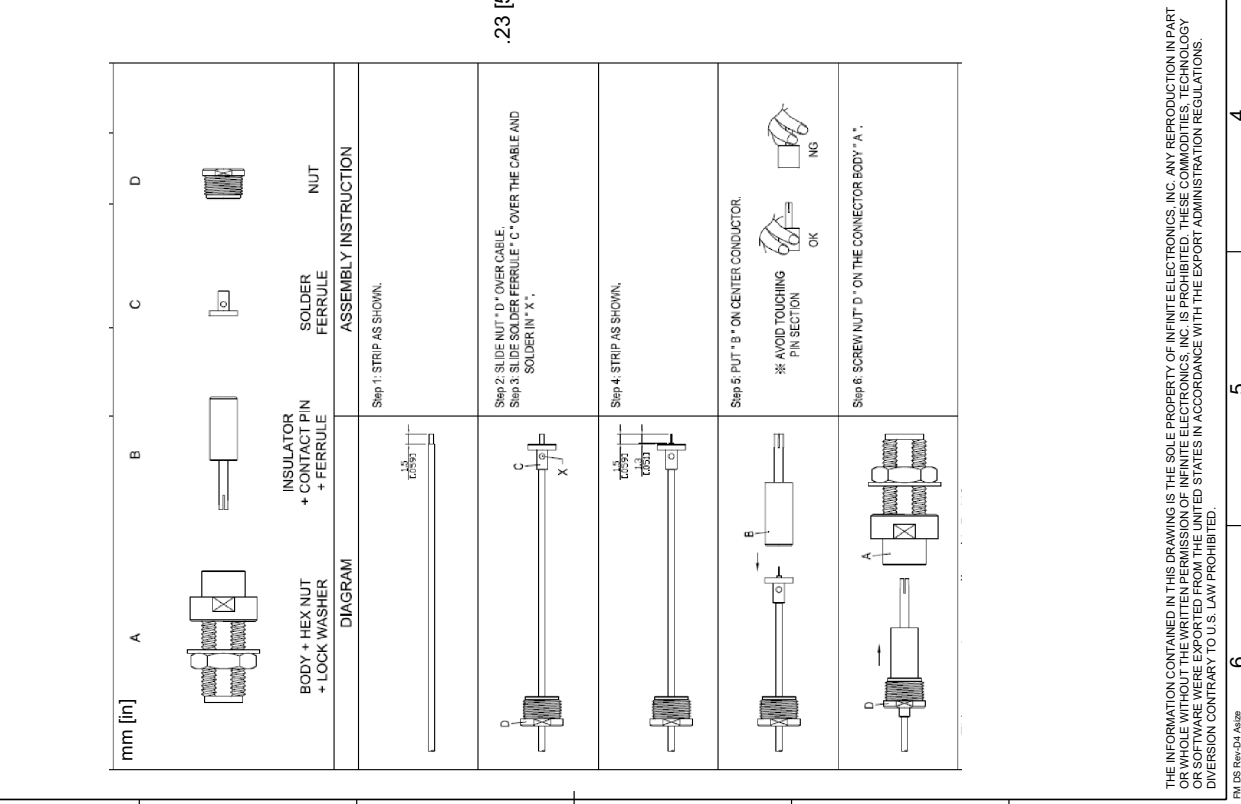
# FMCN51278 CAD Drawing

3.5mm Female Bulkhead Connector Clamp/Solder Attachment for FM-SR047ALTN-COIL, FM-SR047CU-COIL, FM-SR047CUTN-COIL, .047 Semi-Rigid Cable



ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
B		ECO-13765	07/30/2024	DMAY	AGANWANI

mm [in]	A	B	C	D
	BODY + HEX NUT + LOCK WASHER	INSULATOR + CONTACT PIN + FERRULE	SOLDER FERRULE	NUT



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

TOLERANCES:  
 .X = ±.2 [5]      FRACTIONS ± 1/32  
 .XX = ±.02 [0.5]      ANGLES ± 1°  
 .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:  
 >12 [305] ≤ 60 [1524] = ±.1 [25] / -0  
 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0  
 >120 [3048] ≤ 300 [7620] = ±.6 [152] / -0

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

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE      SHEET: 1 OF 1

DESCRIPTION: 3.5mm FEMALE SOLDER CLAMP BULKHEAD FOR .047 SEMI-RIGID, 28.5GHZ VSWR 1.25

SIZE: A      CAGE CODE: 3FKR5      DRAWN BY: KDANG      ITEM NO.: FMCN51278

REV: B

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FM DS Rev-D4 Alt28