

1.85mm Female (Jack) Connector Clamp/Solder Attachment for 0.085 Semi-Rigid Coax Cable



FMCN5227

Configuration

- 1.85mm Female Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: 0.085 Semi-Rigid Coax Cable

Features

- Operating Frequency of 67 GHz Max.
- Good VSWR of 1.35:1
- Gold over Nickel over Copper Plated Beryllium Copper Contact

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

1.85mm Female Standard Connector Clamp/Solder Attachment for 0.085 Semi-Rigid Coax Cable Cable, part number FMCN5227, from Fairview Microwave is in-stock and ships same day. This 1.85mm female connector operates up to a maximum frequency of 67 GHz and offers good VSWR of 1.35:1.

Fairview's 1.85mm female connector FMCN5227 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		67	GHz
VSWR			1.35:1	
Insertion Loss			0.409	dB
Operating Voltage (AC)			150	Vrms
Dielectric Withstanding Voltage (AC)			500	Vrms
Inner Conductor DC Resistance			4	mOhms
Outer Conductor DC Resistance			2.5	mOhms
RF Leakage	100			dB
Impedance		50		Ohms

Mechanical Specifications

Size

Length	1.199 in [30.45 mm]
Width	0.315 in [8 mm]
Height	0.315 in [8 mm]
Weight	0.015 lbs [6.8 g]
Mating Cycles	500 Cycles

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Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel over Copper
Insulation	PPO	
Body	Stainless Steel	Passivated

Environmental Specifications

Temperature

Operating Range	-55 to +105 deg C
Humidity	MIL-STD-202, Method 106
Thermal Shock	MIL-STD-202, Method 107, Condition B
Salt Spray	MIL-STD-202, Method 101, Condition B

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

Plotted and Other Data

Notes:

1.85mm Female (Jack) Connector Clamp/Solder Attachment for 0.085 Semi-Rigid Coax 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.

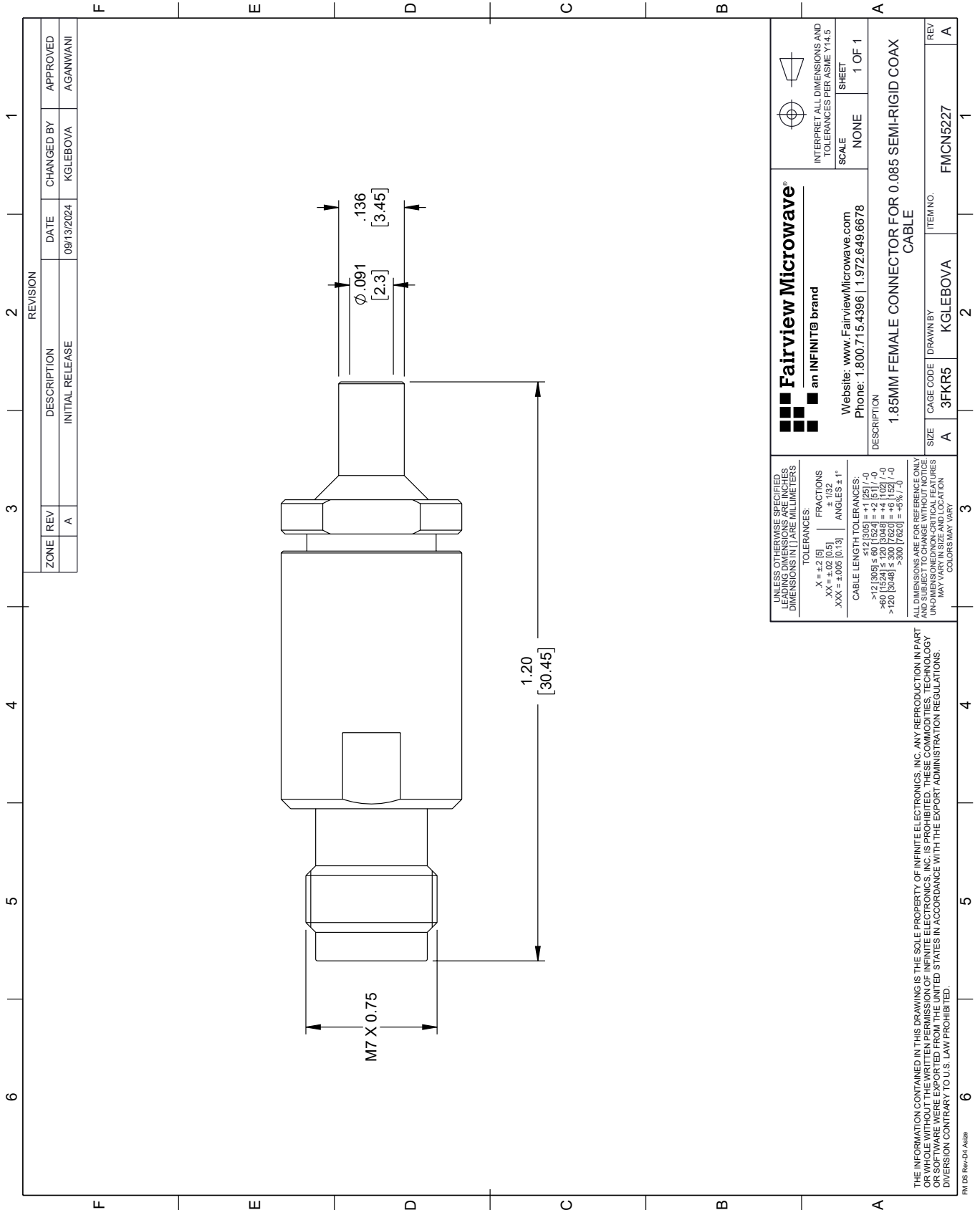
For additional information on this product, please click the following link: [1.85mm Female \(Jack\) Connector Clamp/Solder Attachment for 0.085 Semi-Rigid Coax Cable FMCN5227](#)

URL: <https://www.fairviewmicrowave.com/product/rf-connectors/1.85mm-female-0.085-semi-rigid-coax-cable-connector-fmcn5227.html>

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.

FMCN5227 CAD Drawing

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REVISION		DATE	CHANGED BY	APPROVED	
ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	09/13/2024	KGLEBOVA	AGANWANI

 Fairview Microwave [®] an INFINIT [®] brand		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
UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN MILLIMETERS.		TOLERANCES: .X = ±.2 [5] .XX = ±.02 [0.5] .XXX = ±.005 [0.13]	FRACTIONS: ± 1/32 ANGLES: ± 1°
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN MILLIMETERS.		CABLE LENGTH TOLERANCES: >12 [305] ≤ 60 [1524] = +.1 [25] / -0 >60 [1524] ≤ 120 [3048] = +.4 [102] / -0 >120 [3048] ≤ 300 [7620] = +.8 [20] / -0	DESCRIPTION: 1.85MM FEMALE CONNECTOR FOR 0.085 SEMI-RIGID COAX CABLE SIZE: A CAGE CODE: 3FKR5 DRAWN BY: KGLEBOVA ITEM NO.: FMCN5227

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