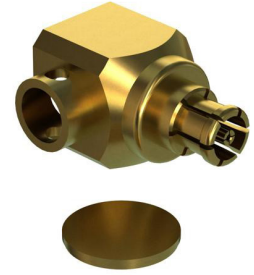


RA Mini SMP Female Engineering Grade Connector  
Solder Attachment for FM-SR086ALTN, FM-SR086TB,  
FM-SR086TJ, FM-SR086CUTN, RG405 Cable



**FMCN5527**

**Configuration**

- Mini SMP Female Connector
- 50 Ohms
- Right Angle Body Geometry
- Connector Interface Types: FM-SR086ALTN, FM-SR086TB, FM-SR086TJ, FM-SR086CUTN, RG405
- Engineering Grade Design

**Features**

- Operating Frequency of 18 GHz Max.
- Good VSWR of 1.3:1
- Blind Mate Connector
- Gold over Nickel-Phosphorus Alloy over Copper Plated Beryllium Copper Contact

**Applications**

- General Purpose Test
- Custom Cable Assemblies

**Description**

RA Mini SMP Female Connector Solder Attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086TJ, FM-SR086CUTN and RG405 Cable, part number FMCN5527, from Fairview Microwave is in-stock and ships same day. This Mini SMP female connector operates up to a maximum frequency of 18 GHz and offers good VSWR of 1.3:1. This blind mate connector is ideal for applications without direct visual or tactile access to the connection point, for example, when two circuit boards need to be mated. Its right angle body geometry facilitates connections in tight spaces.

Fairview's RA Mini SMP female connector FMCN5527 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		18	GHz
VSWR			1.3:1	
Insertion Loss			0.424	dB
Operating Voltage (AC)			325	Vrms
Inner Conductor DC Resistance			6	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms
Impedance		50		Ohms

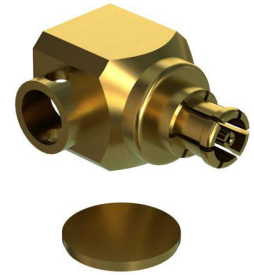
Electrical Specification Notes:  
Insertion loss =  $0.1 * \text{SQRT}(\text{FGHz})$  dB

**Mechanical Specifications**

**Size**

Length	0.326 in [8.28 mm]
Width	0.188 in [4.78 mm]
Height	0.242 in [6.15 mm]

RA Mini SMP Female Engineering Grade Connector  
Solder Attachment for FM-SR086ALTN, FM-SR086TB,  
FM-SR086TJ, FM-SR086CUTN, RG405 Cable



**FMCN5527**

Weight	0.05 lbs [22.68 g]
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**Material Specifications**

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel-Phosphorus Alloy over Copper
Insulation	PTFE	
Outer Conductor	Beryllium Copper	Gold over Nickel-Phosphorus Alloy over Copper
Body	Beryllium Copper	Gold over Nickel-Phosphorus Alloy over Copper

Mechanical Specification Notes:

- Engagement Force: 3.5 lbs (Full Detent), 1.5 lbs (Smooth Bore)
- Disengagement Force: 5 lbs (Full Detent), 1.5 lbs (Smooth Bore)
- Durability (Mating): 100 (Full Detent), 1000 (Smooth Bore)

**Environmental Specifications**

**Temperature**

Operating Range	-65 to +165 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:

RA Mini SMP Female Engineering Grade Connector Solder Attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086TJ, FM-SR086CUTN, RG405 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.

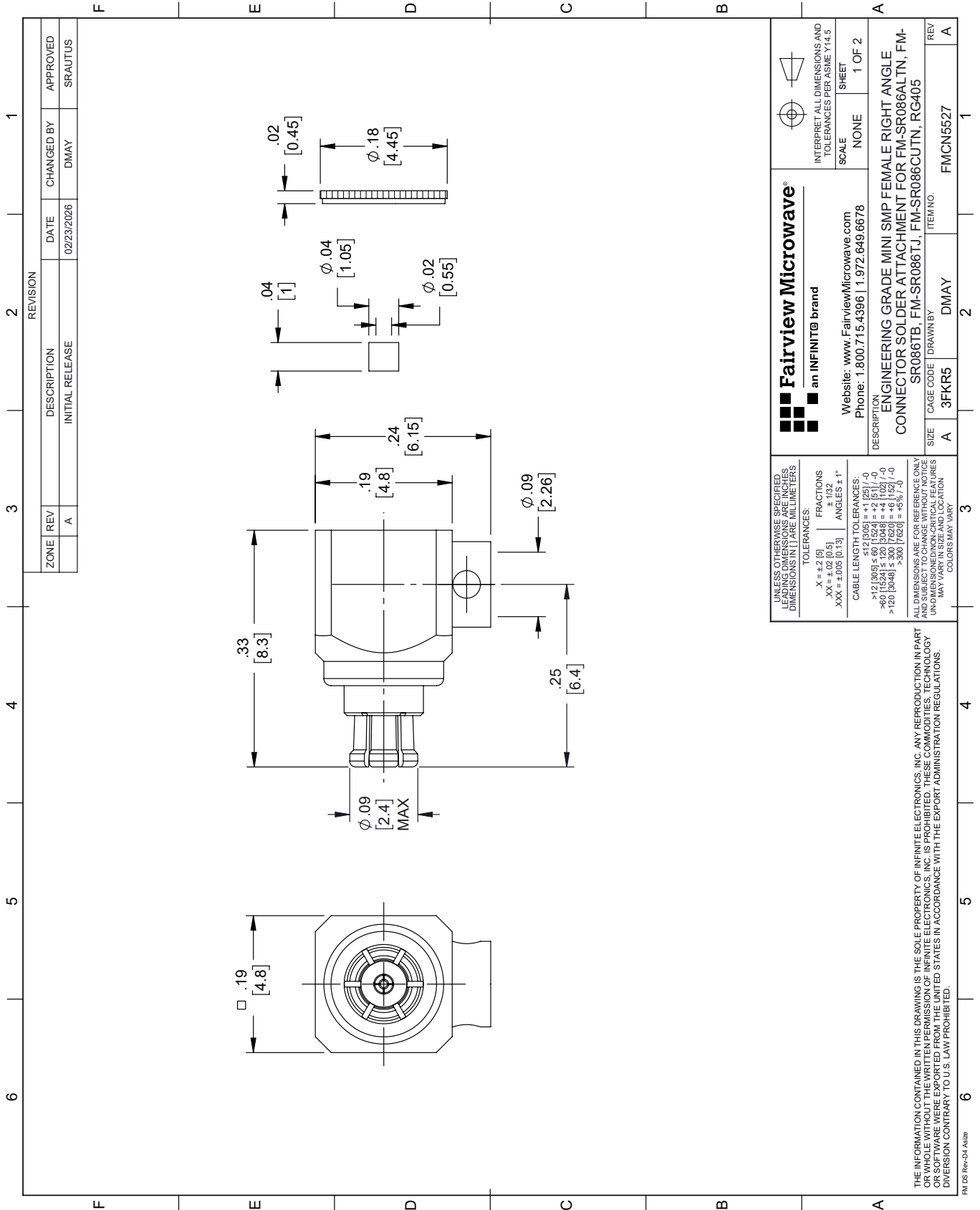
For additional information on this product, please click the following link: [RA Mini SMP Female Engineering Grade Connector Solder Attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086TJ, FM-SR086CUTN, RG405 Cable FMCN5527](#)

URL: <https://www.fairviewmicrowave.com/product/rf-connectors/mini-smp-female-fm-sr086altn-fm-sr086tb-fm-sr086tj-fm-sr086cutn-rg405-connector-fmcn5527.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.

# FMCN5527 CAD Drawing

RA Mini SMP Female Engineering Grade Connector Solder Attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086TJ, FM-SR086CUTN, RG405 Cable



ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	02/23/2026	DMAY	SRAUTUS

**Fairview Microwave®**  
an INFINITI® brand

Website: [www.FairviewMicrowave.com](http://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 2

DESCRIPTION: ENGINEERING GRADE MINI SMP FEMALE RIGHT ANGLE CONNECTOR SOLDER ATTACHMENT FOR FM-SR086ALTN, FM-SR086TB, FM-SR086TJ, FM-SR086CUTN, RG405

SIZE: A  
CAGE CODE: 3FKR5  
DRAWN BY: DMAY  
ITEM NO.: FMCN5527

REV: A

UNLESS OTHERWISE SPECIFIED, 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] = ± 1 [25] / -0  
 > 60 [1524] ≤ 120 [3048] = ± 4 [102] / -0  
 > 120 [3048] ≤ 300 [7620] = ± 8 [203] / -0

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

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FM DS Rev-D4 Alt26