

Mini SMP Female VITA 67 Connector Solder Attachment for FM-F086HF Cable



FMCN1536

Configuration

- Mini SMP Female Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: FM-F086, FM-F086HF, FM-F086LL, FM-F086FLX
- VITA 67 Design

Features

- Operating Frequency of 40 GHz Max.
- Good VSWR of 1.45:1
- Blind Mate Connector
- Gold Plated Beryllium Copper Contact
- Contact plating according to ASTM B488
- Coaxial interconnects on VPX platforms
- Standard MIL-STD-348 SMPM interface
- Rugged Stainless Steel construction
- Accepts 0.086" cable contacts for end-to-end solutions

Applications

- General Purpose Test
- Custom Cable Assemblies
- Robust and Rugged high speed cabled solution
- VITA 67 Backplane
- High Density Applications

Description

FMCN1536 Mini SMP female coaxial connector from Fairview Microwave has an interface type of FM-F086HF and a 50 Ohm impedance. This Mini SMP female connector utilizes a solder attachment for the contact. Our female Mini SMP coaxial connector provides a minimum frequency of DC and a maximum frequency of 40 GHz.

Mini SMP female coaxial RF connector has a TEFLON dielectric and a VSWR of 1.45:1. This Fairview Microwave Mini SMP coaxial connector has a beryllium copper body with gold plating. You can find this Mini SMP female coaxial connector datasheet specifications below.

Fairview Microwave female Mini SMP connector purchases will ship the same day. Our Mini SMP female FMCN1536 connector is part of over one million RF, microwave and millimeter wave components in stock and ready for same-day shipment worldwide. We also build custom Mini SMP cable assemblies that will ship quickly from our location.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
VSWR			1.45:1	
Dielectric Withstanding Voltage (AC)			325	Vrms
Inner Conductor DC Resistance			6	mOhms
Outer Conductor DC Resistance			5	mOhms
Insulation Resistance	5,000			MOhms
Impedance		50		Ohms

Mechanical Specifications

Size

Length	0.48 in [12.19 mm]
Width	0.15 in [3.81 mm]
Height	0.15 in [3.81 mm]
Weight	0.0016 lbs [0.73 g]
Mating Cycles	500 Cycles

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Engagement Force	4.25lbs [1.93kg]
Disengagement Force	3.5lbs [1.59kg]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold ASTM B488
Contact Spring	Passivated Stainless Steel	
Insulation	Teflon	
Outer Conductor	Beryllium Copper	Gold ASTM B488
Body	Beryllium Copper	Gold ASTM B488
Retaining Ring	Beryllium Copper	Nickel SAE-AMS-QQ-N-290

Environmental Specifications

Temperature	
Operating Range	-65 to +150 deg C
Humidity	1,000 megohms within 5 minutes after removal from humidity, tested per MIL-STD-202, Method 106
Shock	Sawtooth pulse of 100 g 6ms per MIL-STD-202, Method 213, Condition I
Vibration	MIL-STD-202, Method 214, Test Condition I, Curve D
Thermal Shock	MIL-STD-202, Method 107, Test Condition A

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

Plotted and Other Data

Notes:

Mini SMP Female VITA 67 Connector Solder Attachment for FM-F086HF Cable



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Mini SMP Female VITA 67 Connector Solder Attachment for FM-F086HF 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.

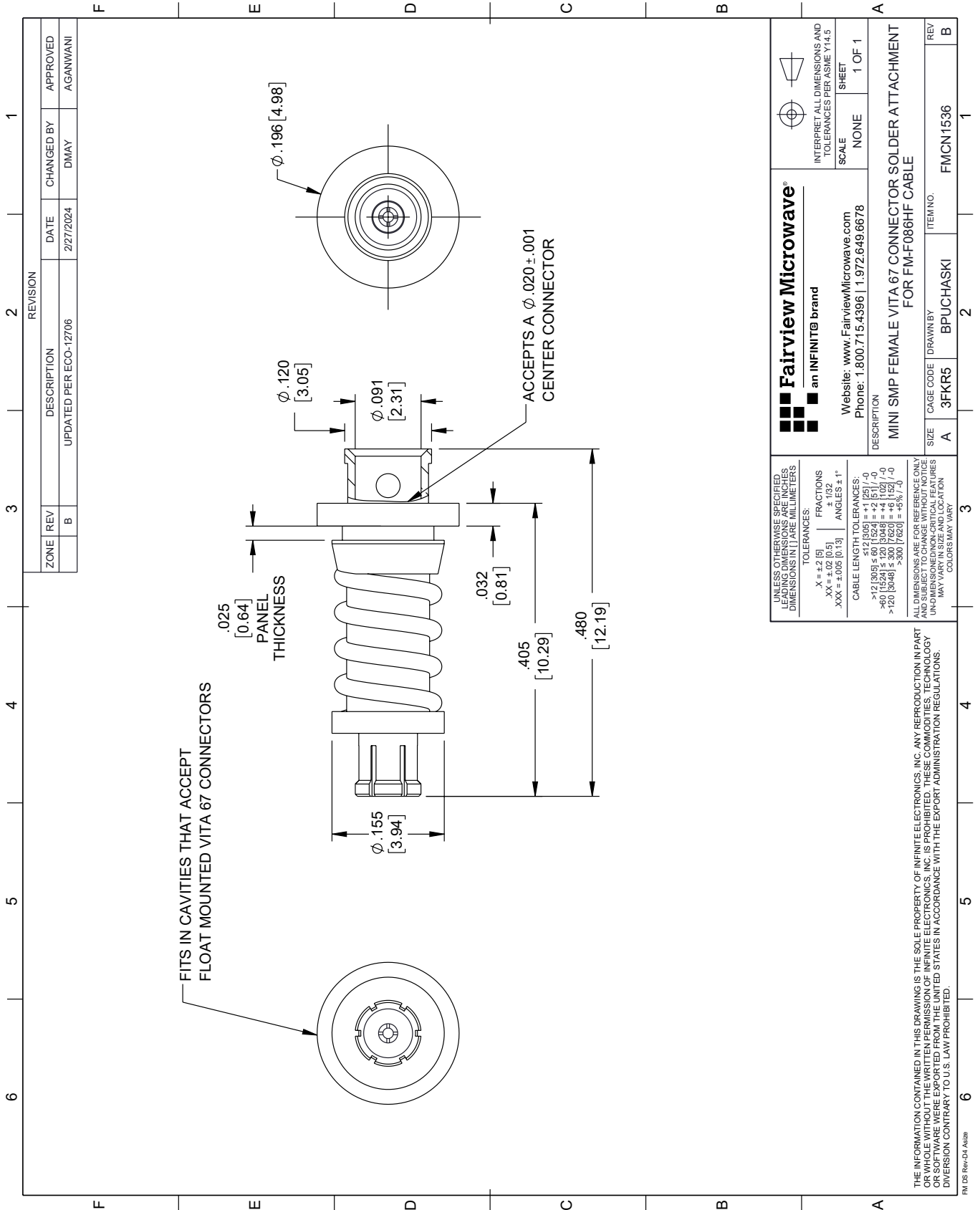
For additional information on this product, please click the following link: [Mini SMP Female VITA 67 Connector Solder Attachment for FM-F086HF Cable FMCN1536](#)

URL: <https://www.fairviewmicrowave.com/mini-smp-female-fm-f086-fm-f086hf-fm-f086ll-fm-f086flx-connector-fmcn1536-p.aspx>

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FMCN1536 CAD Drawing

Mini SMP Female VITA 67 Connector Solder Attachment for FM-F086HF Cable



ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
B		UPDATED PER ECO-12706	2/27/2024	DMAY	AGANWANI

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND DIMENSIONS IN [] ARE IN 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] = ±5% / -0

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

FAIRVIEW MICROWAVE
 MINI SMP FEMALE VITA 67 CONNECTOR SOLDER ATTACHMENT FOR FM-F086HF CABLE

REV	B
ITEM NO.	FMCN1536
SIZE	A
CAGE CODE	3FKR5
DRAWN BY	BPUCHASKI
SCALE	NONE
SHEET	1 OF 1

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FM DS Rev-D4 Alt2b