

2.4mm Female PCB Connector End Launch Clamp/ Solder (Captive Contact) Attachment Microstrip/ Coplanar Launch, 0.010 inch

2.4mm female connector with clamp/solder (captive contact) attachment for end launch PCB, part number FMCN1501, from Fairview Microwave is in-stock and ships same day. This 2.4mm female connector operates up to a maximum frequency of 50 GHz and offers excellent VSWR of 1.2:1.

Fairview's 2.4mm female connector FMCN1501 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	Min	Typ	Max	Units
Frequency Range	DC		50	GHz
VSWR			1.2:1	

Electrical Specification Notes:

Actual VSWR performance is largely dependent on circuit board design. For optimal results, the connector and circuit launch geometry should be modeled using Electromagnetic Simulation tools.

Mechanical Specifications

Size

Length	0.615 in [15.62 mm]
Width/Dia.	0.469 in [11.91 mm]
Weight	0.011 lbs [4.99 g]
Mating Cycles	500 Cycles

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold
Insulation	PTFE	
Outer Conductor	Passivated Stainless Steel	
Body	Passivated Stainless Steel	

Mechanical Specification Notes:

Launch Pin is Gold Plated Beryllium Copper



Configuration:

- 2.4mm Female Connector
- 50 Ohms
- Straight Body Geometry
- End Launch Interface Type
- Clamp/Solder (Captive Contact) Attachment

Features:

- Operating Frequency of 50 GHz Max.
- Excellent VSWR of 1.2:1
- Gold Plated Beryllium Copper Contact
- Optimized for 10 mil Du5880

Applications:

- General Purpose Test
- PCB Applications
- Signal Integrity Measurement
- Chip Evaluations
- SERDES
- End Launch Test Fixtures
- Microstrip Launches
- CPW Launches

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Environmental Specifications

Temperature

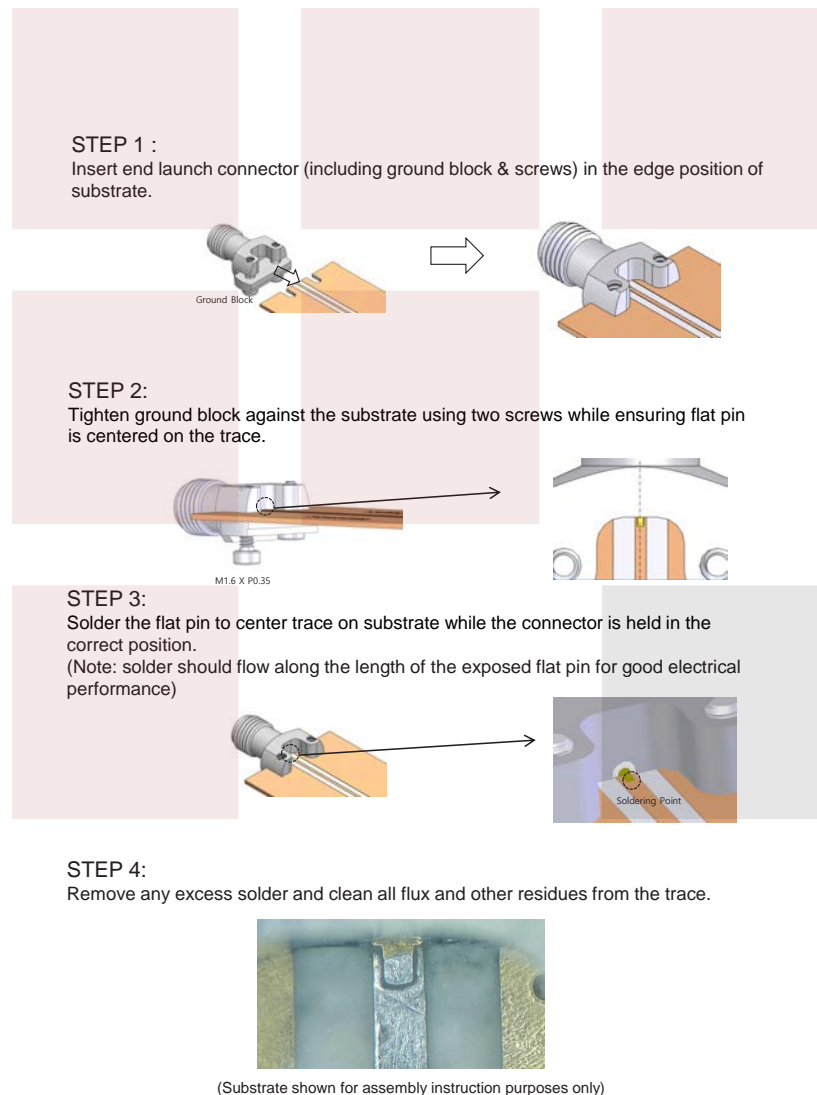
Operating Range -40 to +125 deg C

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

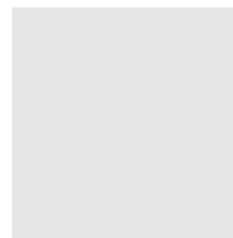
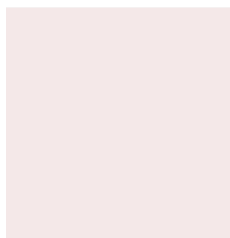
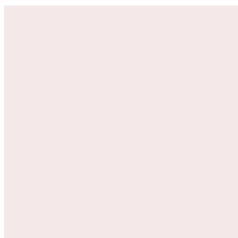
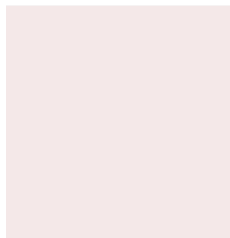
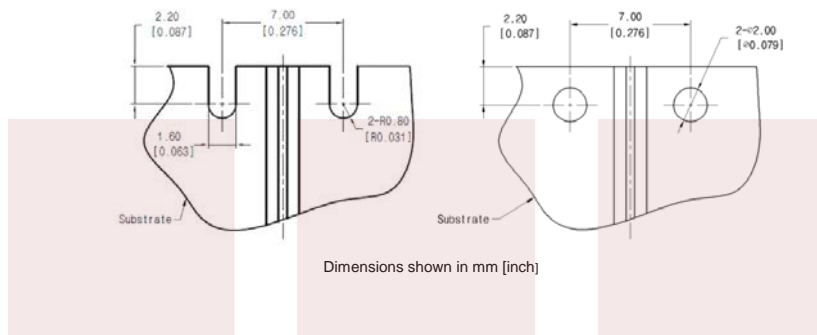
Plotted and Other Data

Notes:

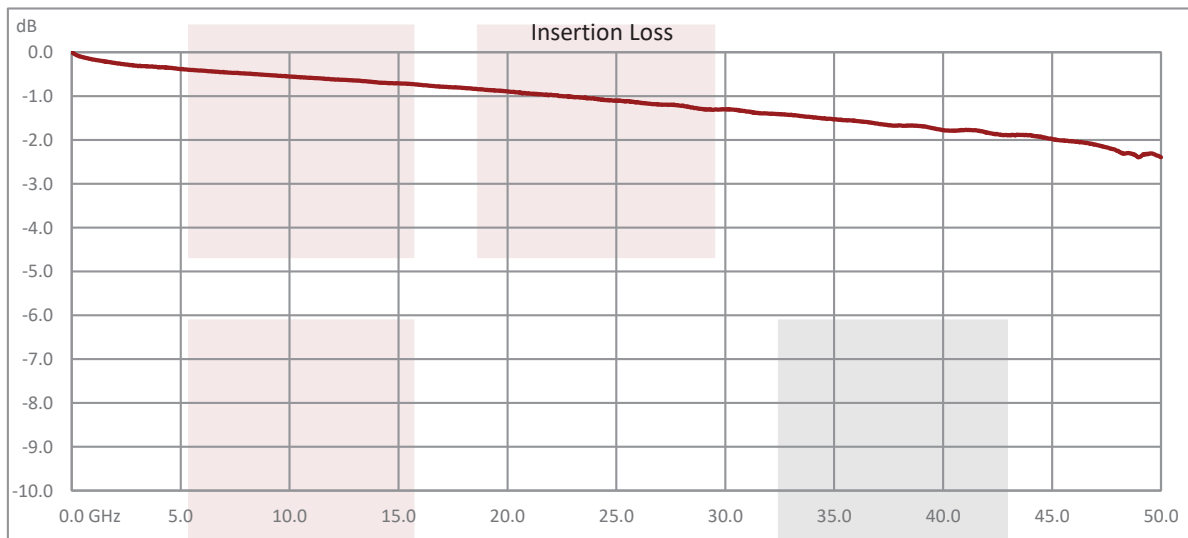
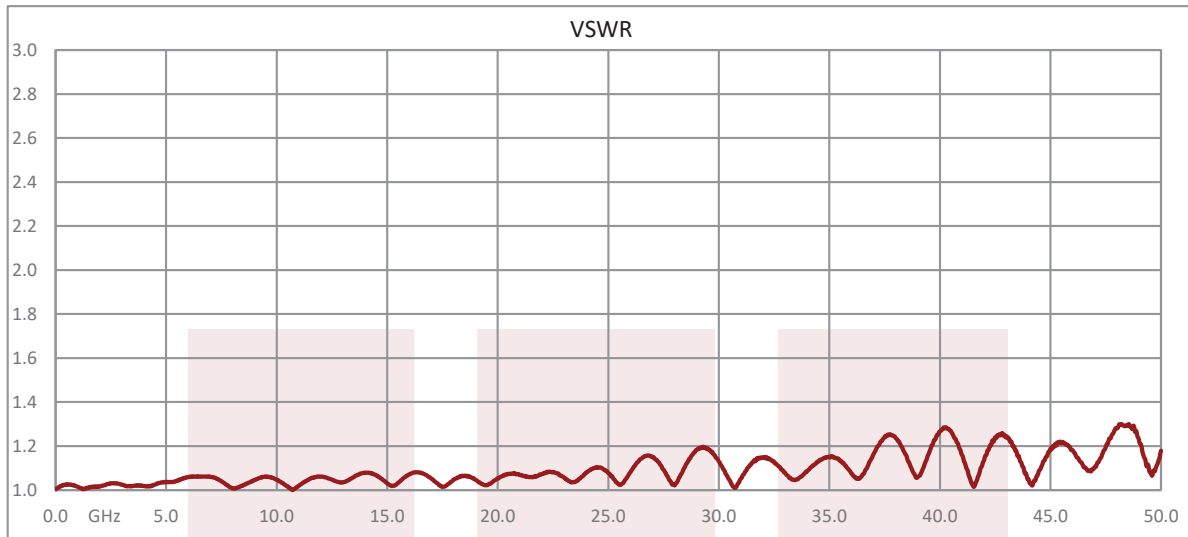
Assembly Instruction



TYPICAL PCB GEOMETRY
SUBSTRATE THICKNESS: 0.010"
MICROSTRIP WIDTH: 0.030"
SUBSTRATE MATERIAL: Du5880



Typical Performance Data

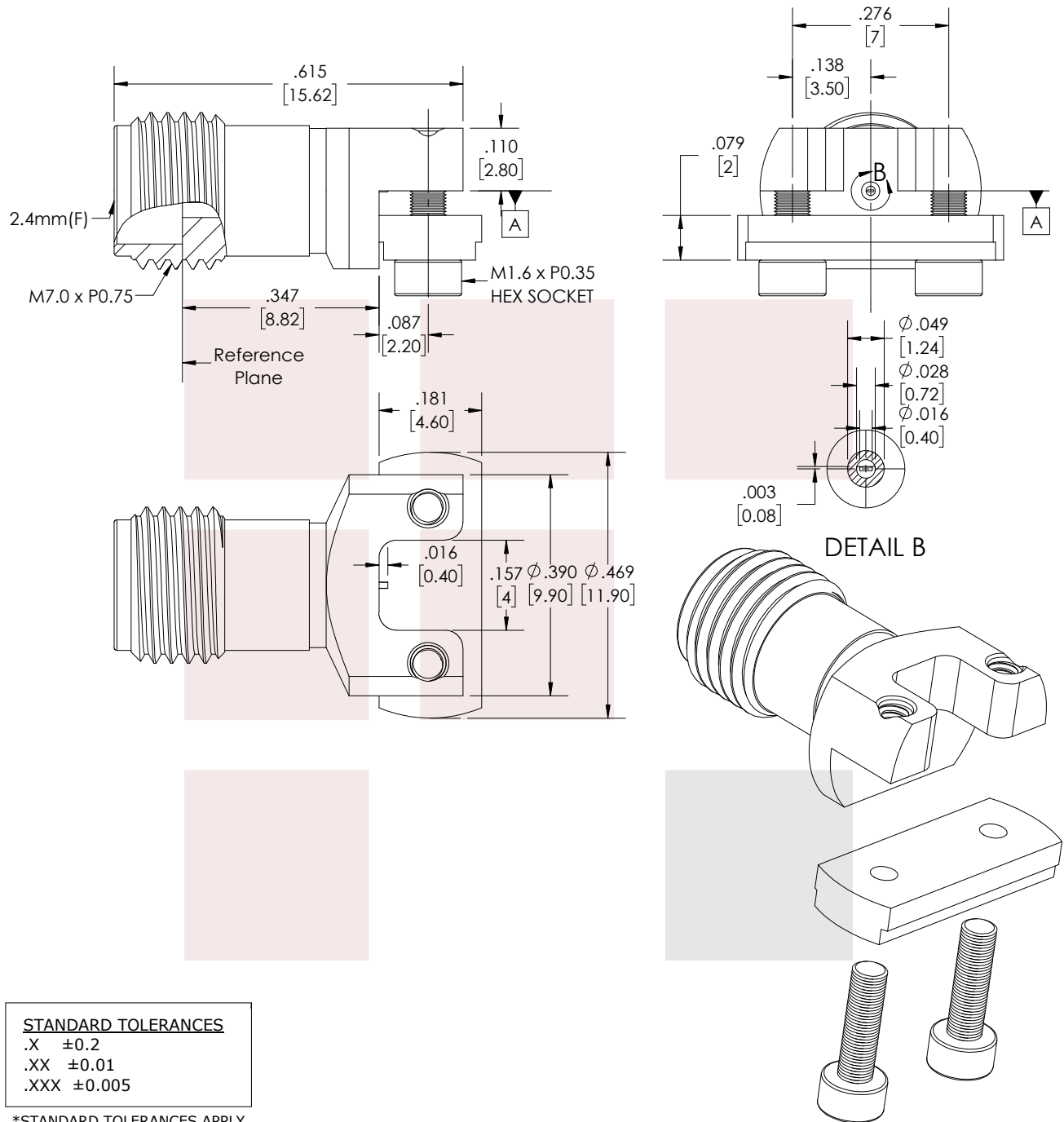


2.4mm Female PCB Connector End Launch Clamp/Solder (Captive Contact) Attachment Microstrip/Coplanar Launch, 0.010 inch from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2.4mm Female PCB Connector End Launch Clamp/Solder \(Captive Contact\) Attachment Microstrip/Coplanar Launch, 0.010 inch FMCN1501](https://www.fairviewmicrowave.com/2.4mm-female-end-launch-pcb-connector-fmcn1501-p.aspx)

URL: <https://www.fairviewmicrowave.com/2.4mm-female-end-launch-pcb-connector-fmcn1501-p.aspx>

The information contained in 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 any liability arising out of the use of any part or documentation.



STANDARD TOLERANCES

.X ±0.2
.XX ±0.01
.XXX ±0.005

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

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TITLE

2.4mm Female PCB Connector End Launch Clamp/
Solder (Captive Contact) Attachment Microstrip/
Coplanar Launch, 0.010 inch

NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

DWG NO

FMCN1501

CAGE CODE

3FKR5

CAD FILE 06/04/18

SHEET

SCALE N/A

SIZE A

CN2379