

FMCN1520 DATA SHEET

1.85mm Female PCB Connector End Launch Clamp/ Solder (Captive Contact) Attachment Removable End Launch, Standard Profile

1.85mm jack removable end launch PCB connector, part number FMCN1520, from Fairview Microwave is in-stock and ships same day. This 1.85mm solderless edge launch connector operates to a maximum frequency of 67 GHz and offers outstanding VSWR of 1.4:1. The clamp-on installation does not require soldering, allowing the connector to be easily reused on multiple chip evaluations, SERDES or millimeter wave developments.

Fairview's 1.85mm solderless end launch PCB connector FMCN1520 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 delivering increased data rates, signal integrity, or test fixtures, Fairview Microwave has the right PCB edge launch connector solutions 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	Тур	Max	Units
Frequency Range	DC		67	GHz
VSWR			1.4:1	
Insertion Loss			0.5	dB
Operating Voltage (AC)			400	Vrms

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
Width/Dia.
Height

Weight

Sizo

0.789 in [20.04 mm] 0.5 in [12.70 mm] 0.5 in [12.7 mm] 0.032 lbs [14.51 g]

Material Specifications

	Plating			
Beryllium Copper	Gold			
PEI				
Passivated Stainless Steel				
Passivated Stainless Steel				
	PEI Passivated Stainless Steel			

Mechanical Specification Notes: Launch Pin is Gold Plated Beryllium Copper



Configuration:

- 1.85mm Female Connector
- 50 Ohms
- Straight Body Geometry
- End Launch Interface Type
- Clamp/Solder (Captive Contact)
 Attachment

Features:

- Operating Frequency of 67 GHz Max.
- Good VSWR of 1.4:1
- Gold Plated Beryllium Copper Contact
- Solder or Solderless PCB Contact
- M1.6x0.35 Mounting Screws
- Reusable end launch installation

Applications:

- General Purpose Test
- PCB Applications
- Signal Integrity Measurement
- Coplanar Edge Launches
- Chip Evaluations
- 28 Gbps SERDES
- End Launch Test Fixtures
- Substrate Measurements

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Environmental Specifications

Temperature

Operating Range

-40 to +125 deg C

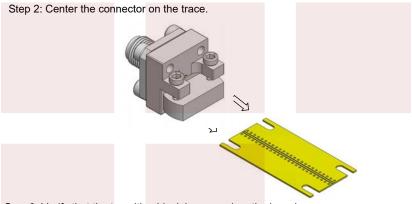
Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

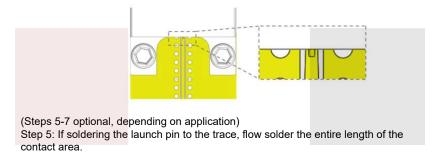
Assembly Instruction

Step 1: Mount the end launch connector in the desired position on the board.



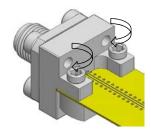
Step 3: Verify that the transition block is secured on the board.

Step 4: Tighten the M1.6-0.35 mounting screws to the boards suggested torque or until the connectors is secure.



Step 6: To avoid performance mistakes, remove excess solder.

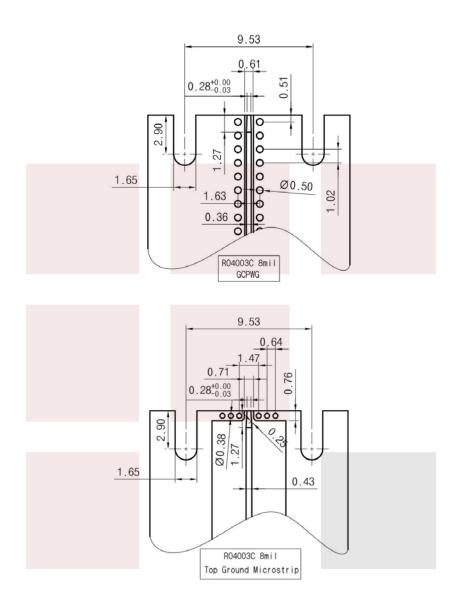
Step 7: Clean any residue from around the solder joint.







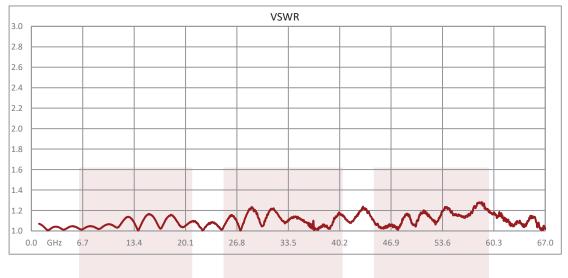
Recommended PCB Cutouts







Typical Performance Data





Measurement is for two connectors with 1.0 inch (25.4mm) length of substrate





1.85mm Female PCB Connector End Launch Clamp/Solder (Captive Contact) Attachment Removable End Launch, Standard Profile 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: 1.85mm Female PCB Connector End Launch Clamp/ Solder (Captive Contact) Attachment Removable End Launch, Standard Profile FMCN1520

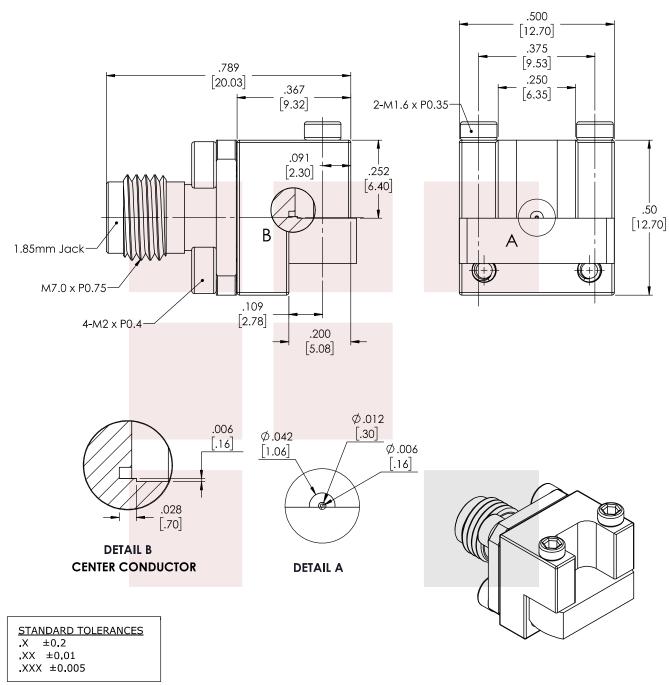
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order

URL: https://www.fairviewmicrowave.com/1.85mm-female-end-launch-pcb-connector-fmcn1520-p.aspx

to implem	ent improve	ements. Fairv	ew Micro	wave reserv	es the rigl	nt to mal	ke such	changes	as req	uired.	Unles	ss ot	herwise
stated, all	specification	ons are nomin	al. Fairv	ew Microwa	ave does n	ot make	any re	presentat	ion or	warra	nty re	egard	ling the
suitability	of the part	described he	ein for a	ny particula	r purpose,	and Fai	rview M	1icrowave	does	not as	sume	any	liability
arising ou	t of the use	of any part o	docume	ntation.									







*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

	FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	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].						
1.85mm Female PCB Connector End Lau Solder (Captive Contact) Attachment Re Launch, Standard Profile	1.85mm Female PCB Connector End Launch Clamp/	DWG NO FMCN1520			CAGE CODE 3FKR5			
		CAD FILE 09/12/18	SHEET	SCAL	E N/A	SIZE A	CN2245	