

BMA Jack (Female) PCB Connector Thru Hole PCB Solder Attachment



FMCN5488

Configuration

- BMA Jack Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: Thru Hole PCB

Features

- Operating Frequency of 18 GHz Max.
- Excellent VSWR of 1.2:1
- Blind Mate Connector
- Gold over Nickel Alloy over Copper Plated Beryllium Copper Contact

Applications

- General Purpose Test
- PCB Applications

Description

BMA Jack Connector Solder Attachment for Thru hole PCB, part number FMCN5488, from Fairview Microwave is in-stock and ships same day. This BMA jack connector operates up to a maximum frequency of 18 GHz and offers excellent VSWR of 1.2:1. 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.

Fairview's BMA jack connector FMCN5488 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 | | | 1.2:1 | |
| Insertion Loss | | | 0.127 | dB |
| Operating Voltage (AC) | | | 1,000 | Vrms |
| Dielectric Withstanding Voltage (AC) | | | 1,500 | Vrms |
| Inner Conductor DC Resistance | | | 2 | mOhms |
| Outer Conductor DC Resistance | | | 2 | mOhms |
| Insulation Resistance | 5,000 | | | MOhms |
| Impedance | | 50 | | Ohms |

Mechanical Specifications

Size

| | |
|---------------------|--------------------|
| Length | 0.433 in [11 mm] |
| Width | 0.374 in [9.5 mm] |
| Height | 0.374 in [9.5 mm] |
| Weight | 0.006 lbs [2.72 g] |
| Mating Cycles | 1,000 Cycles |
| Engagement Force | 3lbs [1.36kg] |
| Disengagement Force | 1.5lbs [680.39g] |

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Material Specifications

| Description | Material | Plating |
|----------------|------------------|------------------------------------|
| Contact | Beryllium Copper | Gold over Nickel Alloy over Copper |
| Contact Spring | Beryllium Copper | Gold over Nickel Alloy over Copper |
| Insulation | PTFE | |
| Body | Brass | Gold over Nickel Alloy over Copper |
| Crimp Sleeve | Brass | Gold over Nickel Alloy over Copper |

Environmental Specifications

Temperature

Operating Range

-40 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:

BMA Jack (Female) PCB Connector Thru Hole PCB Solder Attachment 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.

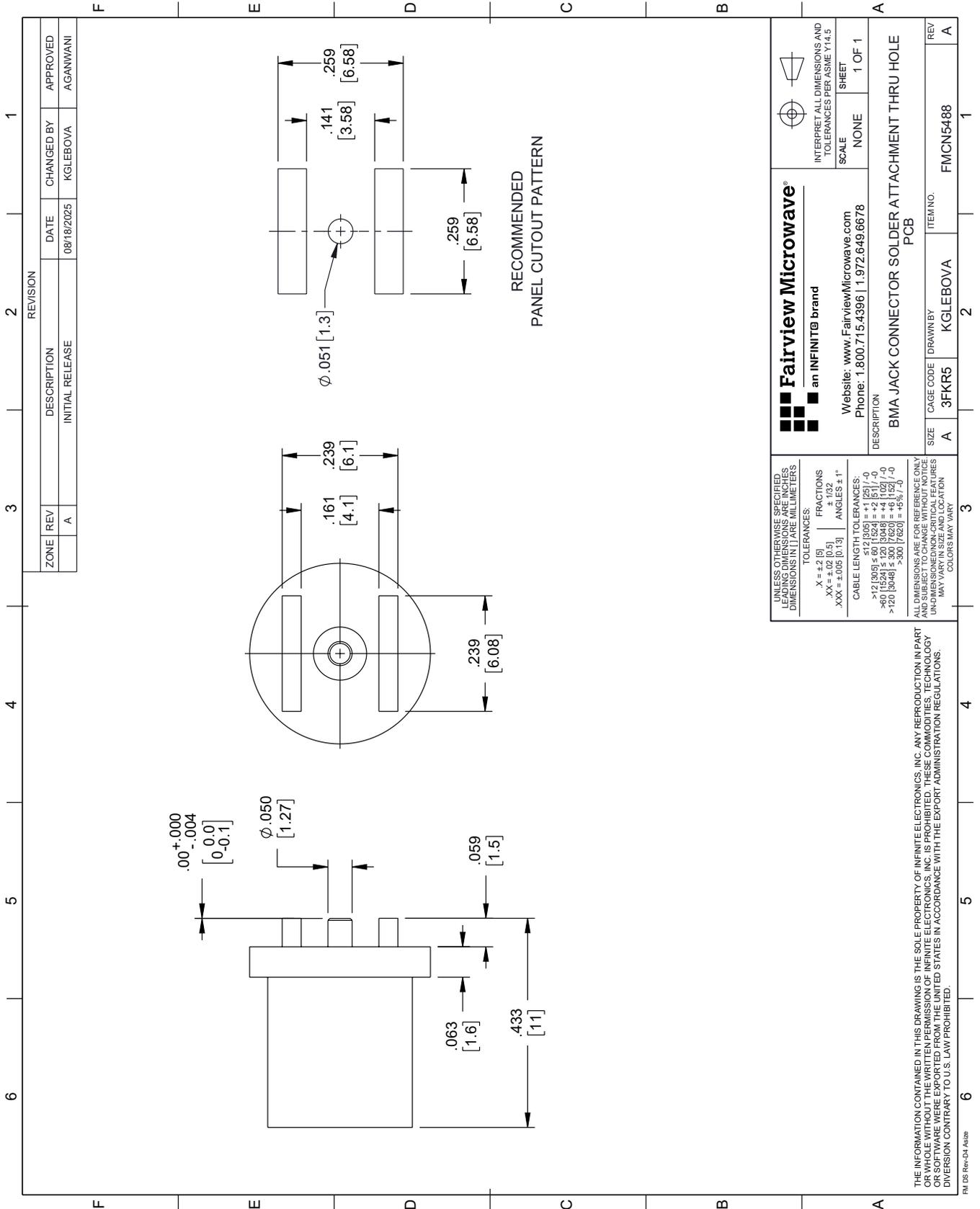
For additional information on this product, please click the following link: [BMA Jack \(Female\) PCB Connector Thru Hole PCB Solder Attachment FMCN5488](#)

URL: <https://www.fairviewmicrowave.com/product/rf-connectors/bma-jack-thru-hole-pcb-pcb-connector-fmcn5488.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.

FMCN5488 CAD Drawing

BMA Jack (Female) PCB Connector Thru Hole PCB Solder Attachment



| REVISION | | DATE | CHANGED BY | APPROVED | |
|----------|-----|-----------------|------------|------------|----------|
| ZONE | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED |
| | A | INITIAL RELEASE | 08/18/2025 | KGLEBOVA | AGANWANI |

Fairview Microwave
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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

DESCRIPTION: BMA JACK CONNECTOR SOLDER ATTACHMENT THRU HOLE PCB

SIZE: A
CAGE CODE: 3FKR5
DRAWN BY: KGLEBOVA
ITEM NO.: FMCN5488

REV: A

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND 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. UNDIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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