

## BNC Female Bulkhead Hermetically Sealed Connector Clamp/Solder Attachment for RG174, RG188, RG316, RG316-FEP, RG316-LSFH Cable

BNC Female Bulkhead Standard Hermetically Sealed Bulkhead Connector Clamp/Solder Attachment for RG174, RG188, RG316, RG316-FEP and RG316-LSFH Cable, part number FMCN1949, from Fairview Microwave is in-stock and ships same day. This BNC female connector operates up to a maximum frequency of 4 GHz and offers excellent VSWR of 1.2:1. Fairview's FMCN1949 bulkhead BNC connector enables designers to make external connections on product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Fairview's BNC female bulkhead connector FMCN1949 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.



### Configuration:

- BNC Female Connector
- 50 Ohms
- Straight Body Geometry
- RG174, RG188, RG316, RG316-FEP, RG316-LSFH Interface Type
- Clamp/Solder Attachment
- Bulkhead

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		4	GHz
VSWR			1.2:1	
Insertion Loss			0.2	dB
Operating Voltage (AC)			500	Vrms
DWV (AC)			1,500	Vrms
Inner Cond. DC Resistance			1.5	mOhms
Outer Cond. DC Resistance			1	mOhms
Insulation Resistance	5,000			MOhms

### Mechanical Specifications

#### Size

Length	1.19 in [30.23 mm]
Width/Dia.	0.69 in [17.53 mm]
Height	0.69 in [17.53 mm]
Weight	0.06 lbs [27.22 g]
Mating Cycles	500 Cycles
Mating Torque	0.6 to 2.5 in-lbs [0.07 to 0.28 Nm]
Cable Retention Force	6.1 lbs [2.77 kg]

### Material Specifications

Description	Material	Plating
Contact	Phosphor Bronze	Gold over Nickel over Copper
Insulation	PTFE	
Body	Brass	Tri-Metal over Copper
Coupling Nut	Brass	Tri-Metal over Copper

### Features:

- Operating Frequency of 4 GHz Max.
- Excellent VSWR of 1.2:1
- Hermetically Sealed
- Gold over Nickel over Copper Plated Phosphor Bronze Contact

### Applications:

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

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Gasket	Silicone	
Washer	Brass	Tri-Metal over Copper

## Environmental Specifications

### Temperature

Operating Range	-65 to +165 deg C
Humidity	MIL-STD-202, Method106
Thermal Shock	MIL-STD-202, Method107, Condition B
Salt Spray	MIL-STD-202, Method101, Condition B
Hermetic Seal	1*10-6cc/sec helium at 1atm

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

## Plotted and Other Data

### Notes:

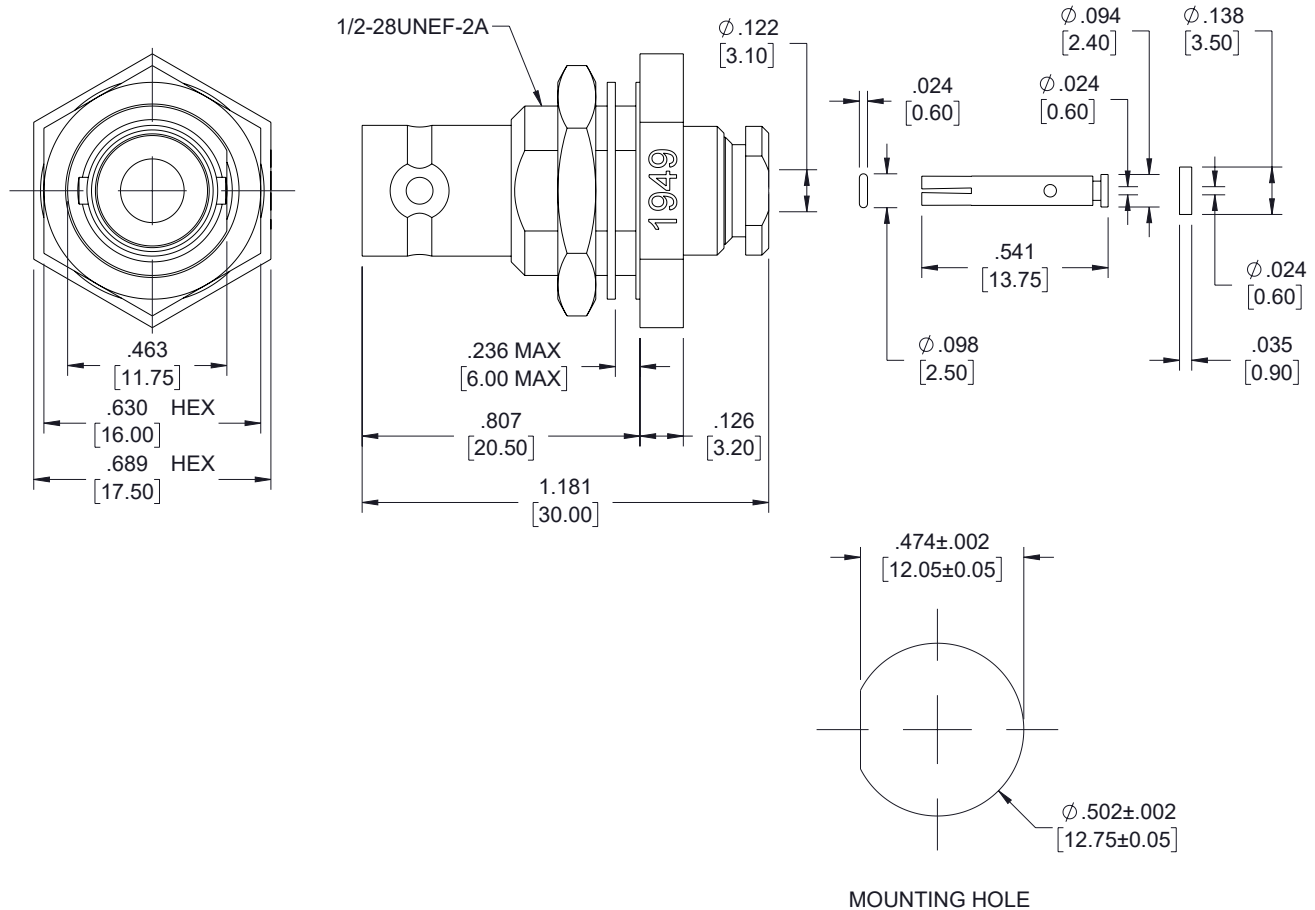
BNC Female Bulkhead Hermetically Sealed Connector Clamp/Solder Attachment for RG174, RG188, RG316, RG316-FEP, RG316-LSFH Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [BNC Female Bulkhead Hermetically Sealed Connector Clamp/Solder Attachment for RG174, RG188, RG316, RG316-FEP, RG316-LSFH Cable FMCN1949](#)

URL: <https://www.fairviewmicrowave.com/bnc-female-rg174-rg188-rg316-rg316-fep-rg316-lsfh-connector-fmcn1949-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.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	12/13/2022	AGANWANI



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TITLE

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES: CABLE LENGTH (L) TOLERANCES:

.X =  $\pm .2$  [5.08] FRACTIONS L  $\leq 12$  [305] =  $\pm 1$  [25] / -0  
 .XX =  $\pm .02$  [.51]  $\pm 1/32$  12 [305] < L  $\leq 60$  [1524] =  $\pm 2$  [51] / -0  
 .XXX =  $\pm .005$  [.13] ANGLES  $\pm 1^\circ$  60 [1524] < L  $\leq 120$  [3048] =  $\pm 4$  [102] / -0  
 120 [3048] < L  $\leq 300$  [7620] =  $\pm 6$  [152] / -0  
 300 [7620] < L =  $\pm 5\%$  L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE

N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	HBAKKE	FMCN1949	A

T-Rev.D