

## BNC Female Bulkhead Mount Hermetically Sealed Connector Clamp/Solder Attachment for RG174, RG188, RG316

### RF Connectors Technical Data Sheet

**PE1948**

#### Configuration

- BNC Female Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG174, RG188, RG316
- Bulkhead

#### Features

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

#### Applications

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

#### Description

Pasternack's PE1948, BNC, Standard, Connector is part of our full line of RF components available for same-day shipping. Our BNC female connector operates up to a maximum frequency of 4 GHz and offers excellent VSWR of 1.2:1. This BNC bulkhead connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Our BNC female bulkhead connector PE1948 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR			1.2:1	
Insertion Loss			0.2	dB
Operating Voltage (AC)			500	Vrms
Impedance		50		Ohms
Dielectric Withstanding Voltage (AC)			1,500	Vrms
Inner Conductor DC Resistance			1.5	mOhms
Outer Conductor DC Resistance			1	mOhms
Insulation Resistance	5,000			MOhms

#### Mechanical Specifications

##### Size

Length 1.19 in [30.23 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Female Bulkhead Mount Hermetically Sealed Connector Clamp/Solder Attachment for RG174, RG188, RG316 PE1948](#)



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Width	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
Gasket	Silicone	
Washer	Brass	Tri-Metal over Copper

**Environmental Specifications**

**Temperature**

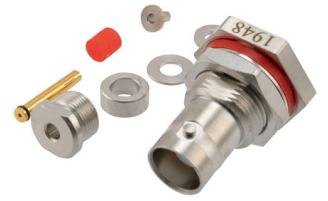
Operating Range	-65 to +165 deg C
Humidity	MIL-STD-202, Method106
Thermal Shock	MIL-STD-202, Method107, Condition B
Salt Spray	MIL-STD-202, Method101, Condition B
Hermetic Seal	1*10-6cc/sec helium at 1atm

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

**Plotted and Other Data**

Notes:

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BNC Female Bulkhead Mount Hermetically Sealed Connector Clamp/Solder Attachment for RG174, RG188, RG316 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Female Bulkhead Mount Hermetically Sealed Connector Clamp/Solder Attachment for RG174, RG188, RG316 PE1948](https://www.pasternack.com/bnc-female-rg174-rg188-rg316-connector-pe1948-p.aspx)

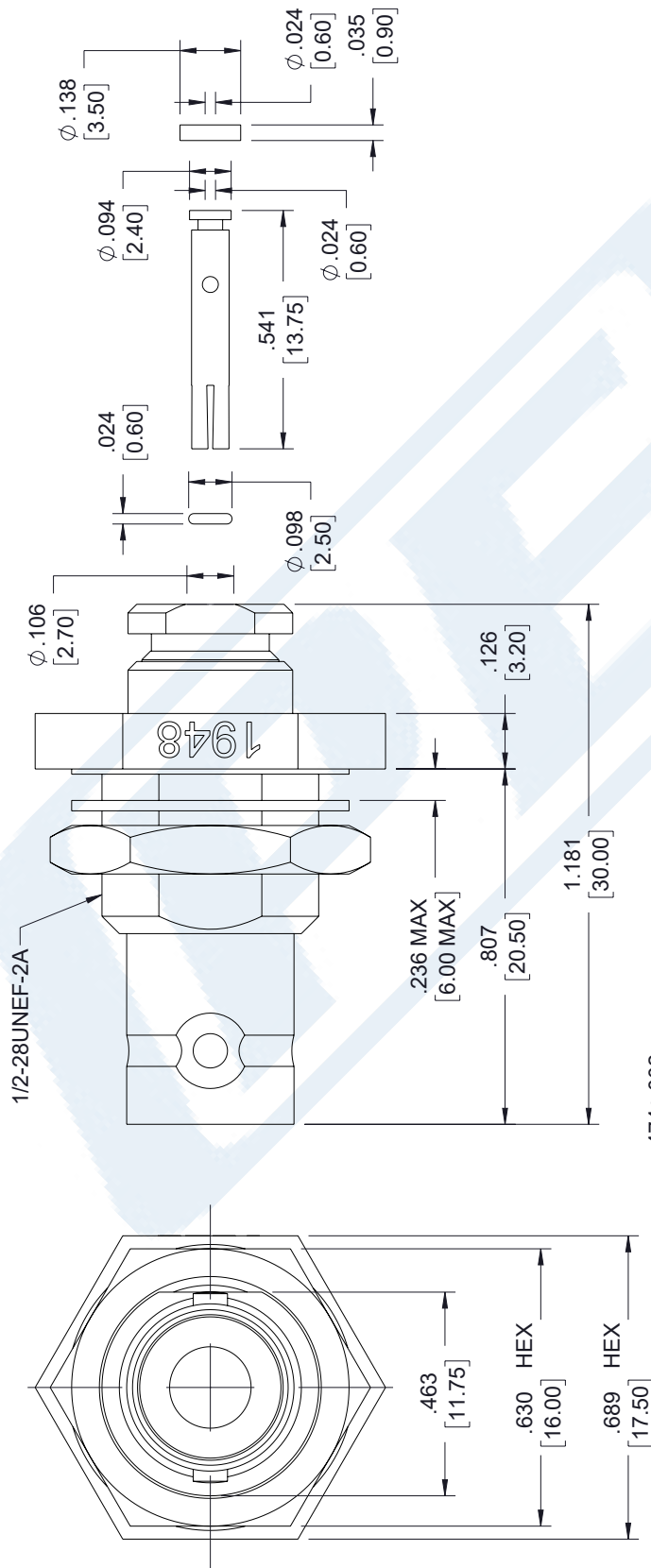
URL: <https://www.pasternack.com/bnc-female-rg174-rg188-rg316-connector-pe1948-p.aspx>

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. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

# PE1948 CAD Drawing

BNC Female Bulkhead Mount Hermetically Sealed Connector  
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	12/12/2022	AGANWANI



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS								THIRD-ANGLE PROJECTION	
TOLERANCES:				THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.					
X ± .2		[ .08]		FRACTIONS					
.XX ± .02		[ .51]		1/32					
XXX ± .005		[ .13]		ANGLES ± °					
CABLE LENGTH (L) TOLERANCES:									
L ≤ 12 [305]				± .125 / -0				SHEET 1 OF 1	
12 [305] < L ≤ 60 [1524]				± .25 / -0				SCALE N/A	
60 [1524] < L ≤ 120 [3048]				± .41 [102] / -0					
120 [3048] < L ≤ 300 [7620]				± .61 [152] / -0					
300 [7620] < L ≤ +5% / -0									
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.				SIZE		CAGE CODE		DRAWN BY	
				A		53919		HBAKKE	
						ITEM NO.		PE1948	
								REV A	

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

**TOLERANCES:**

X = ±.2	[5.08]	FRACTIONS
XX = ±.02	[.51]	± 1/32
XXX = ±.005	[.13]	ANGLES ± 1°

**CABLE LENGTH (L) TOLERANCES:**

L ≤ 12 [305]	= +1 [25] / -0
12 [305] < L ≤ 60 [1524]	= +2 [51] / -0
60 [1524] < L ≤ 120 [3048]	= +4 [102] / -0
120 [3048] < L ≤ 300 [7620]	= +6 [152] / -0
300 [7620] < L	= +5%L / -0

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