



Hermetically Sealed N Female to SMA Female Bulkhead
Mount Adapter, 18GHz VSWR1.35, MIL-STD 348B

RF Adapters Technical Data Sheet

PE1351

Configuration

- N Female Connector 1
- SMA Female Connector 2
- 50 Ohm
- Straight Body Geometry
- Bulkhead Mount Method

Features

- Max VSWR of 1.35:1 up to 18 GHz
- Hermetically Sealed
- Gold Plated Beryllium Copper Contact

Applications

- Allows Connection Between Series
- Vacuum Test Environment
- General Purpose Test
- Rack Mounted Equipment

Description

Pasternack's PE1351 hermetically sealed type N female to SMA female bulkhead adapter is part of our full line of RF components available for same-day shipping. Our type N to SMA adapter has a female to female gender configuration. PE1351 type N female to SMA female adapter is gold plated and operates to 18 GHz. The Pasternack RF adapter provides good VSWR of 1.35:1 maximum. This RF type N to SMA bulkhead adapter 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. This hermetic type N to SMA adapter prevents the leakage of gases, making it suitable for high pressure or vacuum applications or whenever an airtight seal is required.

RF adapters are often used to enable connections between two connector types that would otherwise not mate. Certain adapter configurations can also be used to protect connectors on expensive equipment where the number of connect/disconnect cycles is high. An RF, microwave or millimeter wave adapter is connected to the equipment, and the commonly changed connection is made with the adapter which can be easily replaced when it wears out after high usage; such adapters are referred to as connector savers. Pasternack also offers bulkhead, panel mount, hermetically sealed, reverse polarity, and isolated ground adapter varieties to serve all of your RF, microwave and millimeter wave needs.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.35:1	
Insertion Loss			0.21	dB
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,500	Vrms
Insulation Resistance	5,000			MOhms

Mechanical Specifications

Size	
Length	1.25 in [31.75 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Hermetically Sealed N Female to SMA Female Bulkhead Mount Adapter, 18GHz VSWR1.35, MIL-STD 348B PE1351](#)



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Width	0.87 in [22.10 mm]
Height	0.87 in [22.10 mm]
Weight	0.09 lbs [38.56 g]

Description	Connector 1	Connector 2
Type	N Female	SMA Female
Polarity	Standard	Standard
Connector Option	Hermetically Sealed	Hermetically Sealed
Mating Cycles, Min	500	100
Mating Torque	6 to 10 in-lbs [0.68 to 1.13 Nm]	4 in-lbs 0.45 Nm min
Contact Captivation Axial Force, Min	6.3 lbs [2.86 kg]	6.1 lbs [2.77 kg]
Coupling Proof Torque	15 in-lbs [1.7 Nm]	5.3 in-lbs [0.6 Nm]

Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	N Female		SMA Female	
Contact	Beryllium Copper	Gold	Beryllium Copper	Gold
Insulation	PEI		PEI	
Outer Conductor	Brass	Gold	Brass	Gold
Body	Brass	Gold	Brass	Gold

Environmental Specifications

Temperature

Operating Range -65 to +165 °C

Humidity

Thermal Shock

Salt Spray

Hermetic Seal

MIL-STD-202, Method 206

MIL-STD-202, Method 107, Condition B

MIL-STD-202, Method 101, Condition B

1*10-8 cc/sec of HELIUM at 1 ATM

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

Plotted and Other Data

Notes:

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Hermetically Sealed N Female to SMA Female Bulkhead Mount Adapter, 18GHz VSWR1.35, MIL-STD 348B 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: [Hermetically Sealed N Female to SMA Female Bulkhead Mount Adapter, 18GHz VSWR1.35, MIL-STD 348B PE1351](https://www.pasternack.com/hermetically-sealed-n-female-to-sma-female-bulkhead-mount-adapter-18ghz-vswr1.35-mil-std-348b-pe1351-p.aspx)

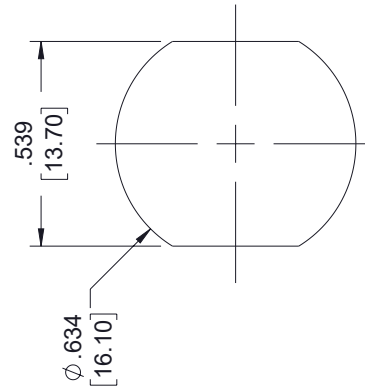
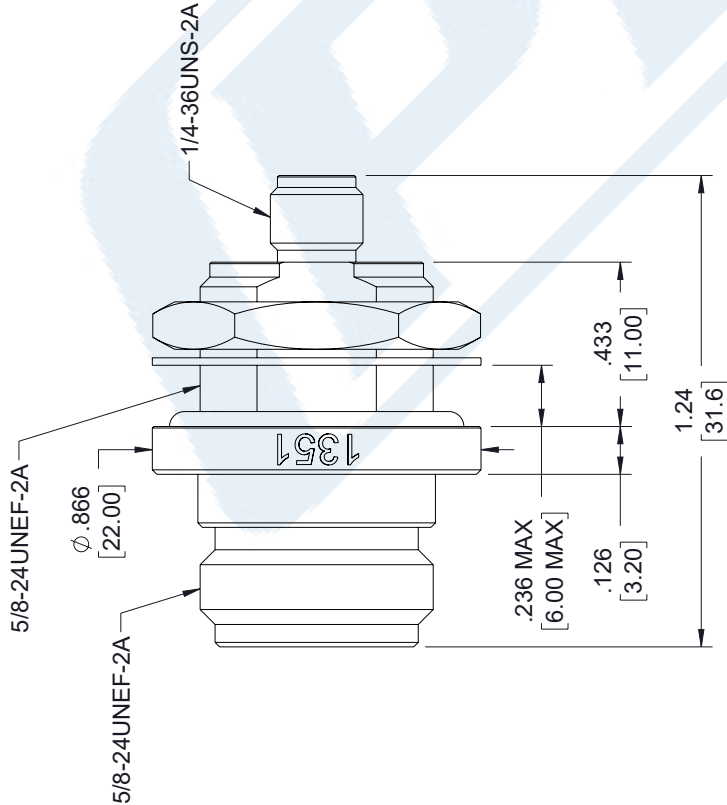
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PE1351 CAD Drawing

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



MOUNTING HOLE

PE PASTERNAK an INFINITI® brand Pasternack Enterprises, Inc. P O Box 16759, Irvine, CA 92623 Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 Website: www.pasternack.com E-mail: sales@pasternack.com		THIRD-ANGLE PROJECTION THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED. SHEET 1 OF 1 SCALE N/A			
UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS TOLERANCES: X = ±.2 [5.08] XX = ±.02 [.51] XXX = ±.005 [.13] FRACTIONS ±1/32 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% / -0 ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	SIZE A	CAGE CODE 53919	DRAWN BY HBAKKE	ITEM NO. PE1351	REV A

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