

Precision 3.5mm Male to N Female Adapter

PE91738



Configuration

- 3.5mm Male Connector 1
- N Female Connector 2
- 50 Ohms Impedance
- Precision Design
- Straight Body Geometry

Features

- Max VSWR of 1.15:1 up to 18 GHz
- Contact plating according to MIL-G-45204
- Gold over Nickel Plated Beryllium Copper Contact

Applications

- Allows Connection Between Series
- General Purpose Test
- Precision Test & Measurement

Description

Pasternack's PE91738 3.5mm male to type N female adapter is part of our full line of RF components available for same-day shipping. The 3.5mm connector mates mechanically with commercially available SMA and 2.92mm (K) connectors. Our 3.5mm to type N adapter has a male to female gender configuration in a precision design. PE91738 3.5mm male to type N female adapter operates to 18 GHz. The Pasternack RF adapter provides excellent VSWR of 1.15:1 maximum.

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
Impedance		50		Ohms
VSWR			1.15:1	

Electrical Specification Notes:
Values at 25°C, sea level.

Mechanical Specifications

Size

Length	1.37 in [34.85 mm]
Width	2.90 in [73.66 mm]
Height	0.65 in [16.51 mm]
Weight	0.06 lbs [26.94 g]

Description	Connector 1	Connector 2
Polarity	Standard	Standard
Mating Cycles, Min	500	500

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Description	Connector 1	Connector 2
Mating Torque	8 to 10 in-lbs 0.90 to 1.13 Nm	

Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	3.5mm Male		N Female	
Contact	Beryllium Copper	Gold over Nickel MIL-G-45204	Beryllium Copper	Gold over Nickel MIL-G-45204
Insulation	PTFE		PTFE	
Outer Conductor			Passivated Stainless Steel	ASTM A380
Body	Passivated Stainless Steel	ASTM A380		
Coupling Nut	Passivated Stainless Steel	ASTM A380		

Environmental Specifications

Temperature

Operating Range

-55 to +100 °C

Vibration

MIL-STD 202, Method 204, Condition D (20 G's)

Salt Spray

MIL-STD 202, Method 101, Condition B, 5% salt solution

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

Plotted and Other Data

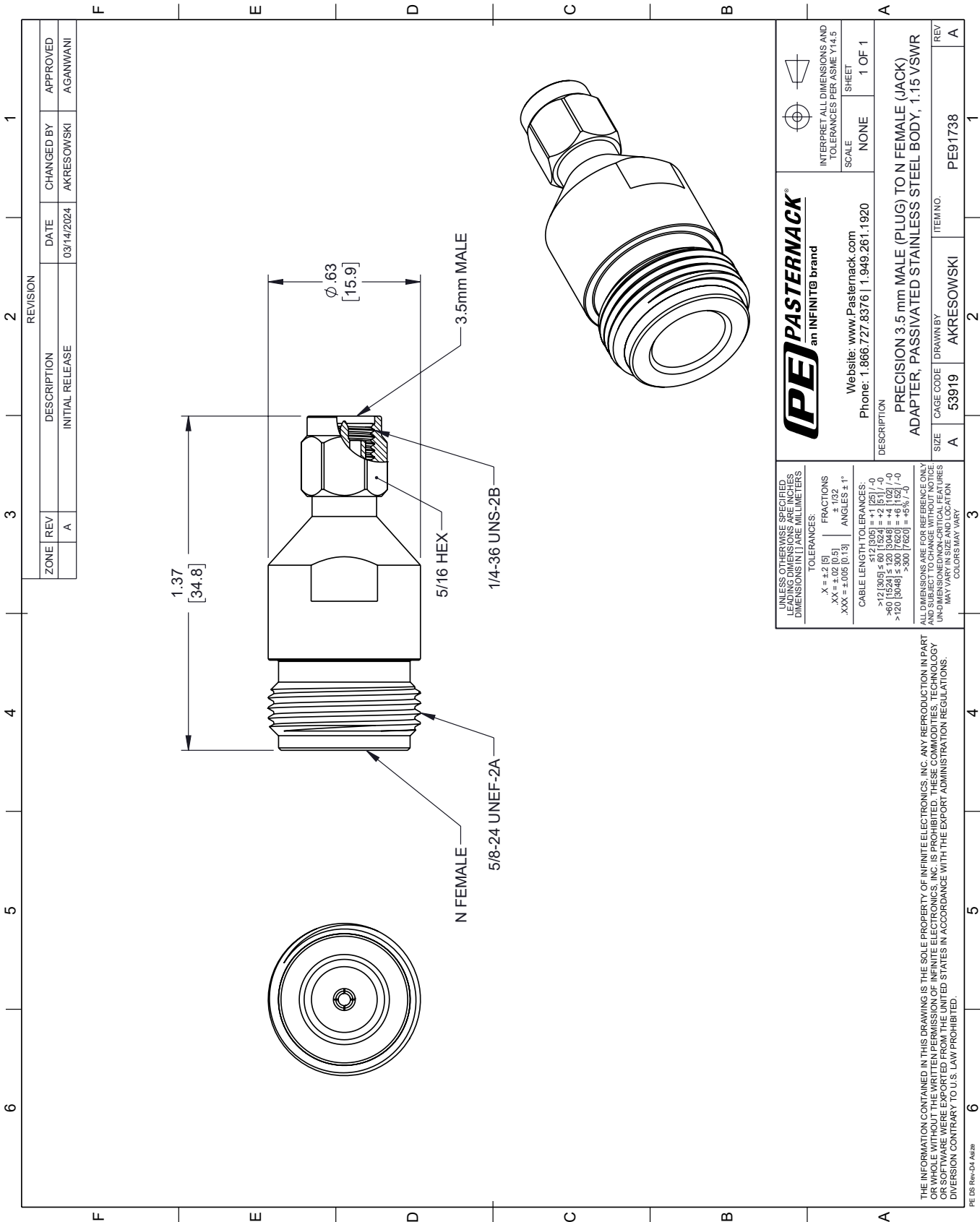
Precision 3.5mm Male to N Female Adapter from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Precision 3.5mm Male to N Female Adapter PE91738](#)

URL: <https://www.pasternack.com/precision-3.5mm-male-to-n-female-adapter-pe91738-p.aspx>

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

PE91738 CAD Drawing
Precision 3.5mm Male to N Female Adapter



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV			
	A	03/14/2024	AKRESOWSKI	AGANWANI
INITIAL RELEASE				

(PE) PASTERNAK® an INFINITE® brand		Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.		TOLERANCES:		SCALE: NONE
		X = ±.2 [5] FRACTIONS ± 1/32 ANGLES ± 1°		SHEET 1 OF 1
		.XX = ±.02 [0.5] .XXX = ±.005 [0.13]		
		CABLE LENGTH TOLERANCES:		
		>12 [305] ≤ 60 [1524] = ±.125 [-0]		
		>60 [1524] ≤ 120 [3048] = ±.125 [-0]		
		>120 [3048] ≤ 300 [7620] = ±.125 [-0]		
		>300 [7620] = ±.125 [-0]		
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		DESCRIPTION		
		PRECISION 3.5mm MALE (PLUG) TO N FEMALE (JACK) ADAPTER, PASSIVATED STAINLESS STEEL BODY, 1.15 VSWR		
		SIZE	CAGE CODE	ITEM NO.
		A	53919	AKRESOWSKI
		DRAWN BY		REV
		AKRESOWSKI		A