



3.5mm Male to 3.5mm Male Adapter, Stainless Steel, Engineering Grade

RF Adapters Technical Data Sheet

PE91611

Configuration

- 3.5mm Male Connector 1
- 3.5mm Male Connector 2
- 50 Ohm
- Engineering Grade Design
- Straight Body Geometry

Features

- Gold Plated Beryllium Copper Contact
- Max VSWR of 1.25:1 up to 26.5 GHz

Applications

- General Purpose Test

Description

Pasternack's PE91611 3.5mm male to 3.5mm male 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 3.5mm adapter has a male to male gender configuration built of durable stainless steel in an engineering grade design. PE91611 3.5mm male to 3.5mm male adapter operates to 26.5 GHz.

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		26.5	GHz
VSWR		1.25:1		
Dielectric Withstanding Voltage (AC)			500	Vrms
Insulation Resistance	5,000			MOhms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 1	1 to 4	4 to 8	8 to 12	12 to 26.5	GHz
Insertion Loss, Max	0.05	0.1	0.141	0.173	0.257	dB

Electrical Specification Notes:
Values at sea level

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3.5mm Male to 3.5mm Male Adapter, Stainless Steel, Engineering Grade PE91611](#)



3.5mm Male to 3.5mm Male Adapter, Stainless Steel, Engineering Grade

RF Adapters Technical Data Sheet

PE91611

Mechanical Specifications

Size

Length	1.01 in [25.76 mm]
Width	0.31 in [8.00 mm]
Height	0.31 in [8.00 mm]
Weight	0.01 lbs [4.54 g]

Description	Connector 1	Connector 2
Type	3.5mm Male	3.5mm Male
Polarity	Standard	Standard
Mating Cycles, Min	500	
Mating Torque	7.1 to 9.7 in-lbs [0.80 to 1.10 Nm]	7.1 to 9.7 in-lbs 0.80 to 1.10 Nm
Contact Retention Force, Min	60.7 lbs [27.53 kg]	60.7 lbs [27.53 kg]
Contact Captivation Axial Force, Min	6.1 lbs [2.77 kg]	6.1 lbs [2.77 kg]
Coupling Proof Torque	15 in-lbs [1.7 Nm]	15 in-lbs [1.7 Nm]

Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	3.5mm Male		3.5mm Male	
Contact	Beryllium Copper	Gold	Beryllium Copper	Gold
Insulation	PPO		PPO	
Body	Stainless Steel	Passivated Stainless Steel	Stainless Steel	Passivated Stainless Steel
Coupling Nut	Beryllium Copper	Gold	Beryllium Copper	Gold

Environmental Specifications

Temperature

Operating Range -55 to +105 °C

Humidity

MIL-STD-202, Method 206

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:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3.5mm Male to 3.5mm Male Adapter, Stainless Steel, Engineering Grade PE91611](#)



3.5mm Male to 3.5mm Male Adapter, Stainless Steel, Engineering Grade

RF Adapters Technical Data Sheet

PE91611

3.5mm Male to 3.5mm Male Adapter, Stainless Steel, Engineering Grade 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.

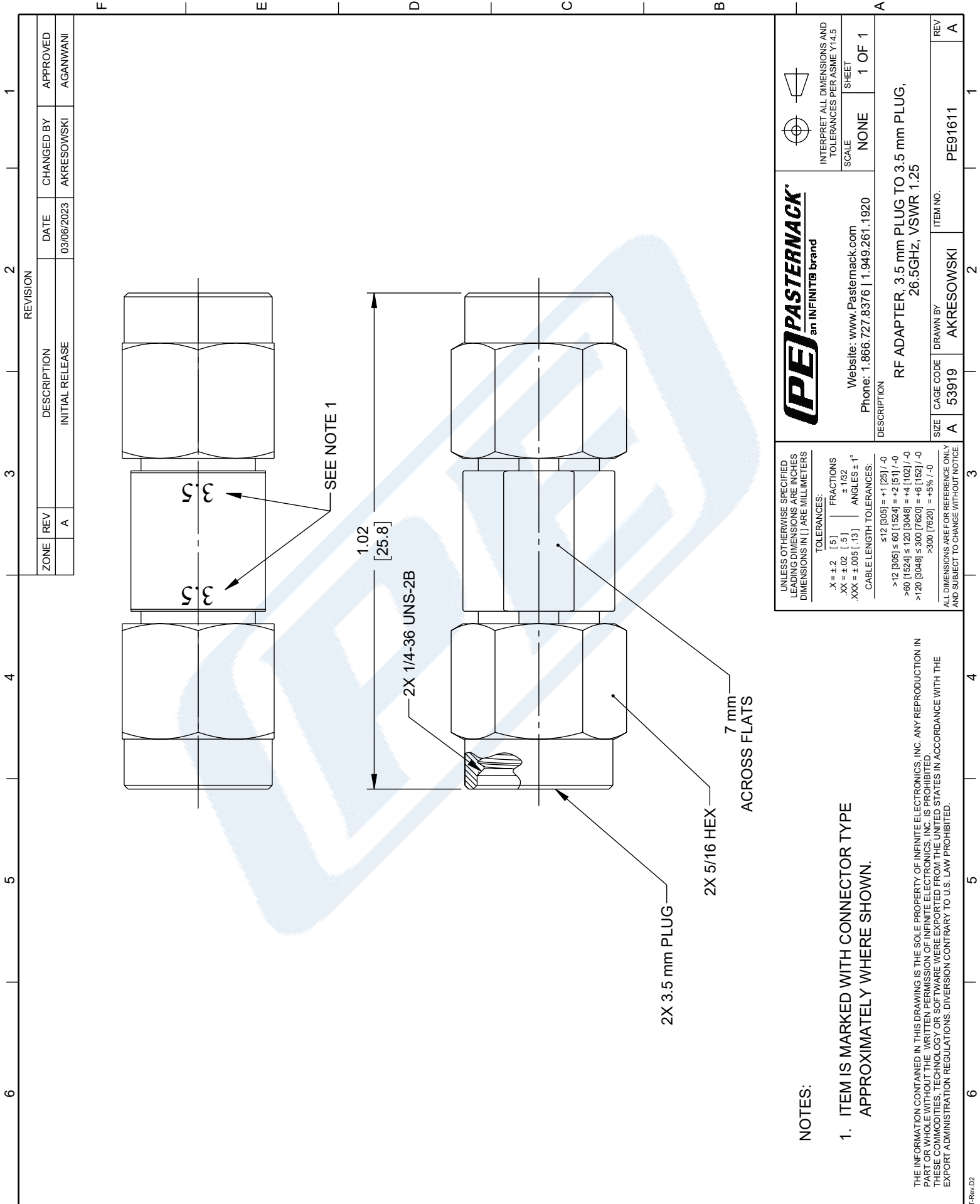
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3.5mm Male to 3.5mm Male Adapter, Stainless Steel, Engineering Grade PE91611](#)

URL: <https://www.pasternack.com/3-5mm-male-to-3-5mm-male-adapter-stainless-steel-engineering-grade-pe91611-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.

PE91611 CAD Drawing

3.5mm Male to 3.5mm Male Adapter, Stainless Steel, Engineering Grade



ZONE		REVISION		DATE		CHANGED BY		APPROVED	
A	REV	DESCRIPTION	INITIAL RELEASE	03/06/2023	AKRESOWSKI	AGANWANI			

PE PASTERNAK
an INFINIT® brand

Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION
RF ADAPTER, 3.5 mm PLUG TO 3.5 mm PLUG, 26.5GHZ, VSWR 1.25

SIZE: A 53919
CAGE CODE: AKRESOWSKI
DRAWN BY: AKRESOWSKI
ITEM NO.: PE91611

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

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

TOLERANCES:
 .X = ±.2 [5] FRACTIONS ±.1032
 .XX = ±.02 [.5] ANGLES ± 1°
 .XXX = ±.005 [.13] CABLE LENGTH TOLERANCES:
 ≤12 [305] = +1 [25] / -0
 >12 [305] ≤ 60 [1524] = +2 [51] / -0
 >60 [1524] ≤ 120 [3048] = +4 [102] / -0
 >120 [3048] ≤ 300 [7620] = +6 [152] / -0
 >300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTES:

1. ITEM IS MARKED WITH CONNECTOR TYPE APPROXIMATELY WHERE SHOWN.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.