



High Temperature Adapter 3.5mm Male to 3.5mm  
Male, 34.5GHz VSWR1.25, MIL-STD 348B

## RF Adapters Technical Data Sheet

**PE91682**

### Configuration

- 3.5mm Male Connector 1
- 3.5mm Male Connector 2
- 50 Ohm

- High Temperature Adapter Design
- Straight Body Geometry

### Features

- Max VSWR of 1.25:1 up to 34.5 GHz
- Gold over Nickel Plated Beryllium Copper Contact

### Applications

- General Purpose Test

### Description

Pasternack's PE91682 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 stainless steel in a high temperature adapter design. PE91682 3.5mm male to 3.5mm male adapter operates to 34.5 GHz. The Pasternack RF adapter provides excellent VSWR of 1.25:1 maximum. This RF 3.5mm bulkhead to 3.5mm 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.

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		34.5	GHz
Impedance		50 Ohm		
VSWR			1.25:1	
Insertion Loss			0.3	dB
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Insulation Resistance	5,000			MOhms
RF Leakage			100	dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [High Temperature Adapter 3.5mm Male to 3.5mm Male, 34.5GHz VSWR1.25, MIL-STD 348B PE91682](#)



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### Mechanical Specifications

<b>Size</b>	
Length	1.06 in [27.00 mm]
Width	0.31 in [8.00 mm]
Height	0.31 in [8.00 mm]
Weight	0.01 lbs [2.72 g]

Description	Connector 1	Connector 2
Type	3.5mm Male	3.5mm Male
Polarity	Standard	Standard
Mating Cycles, Min*	500	500
Hex Size	8 mm	8 mm
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 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 over Nickel	Beryllium Copper	Gold over Nickel
Insulation	PEI		PEI	
Body	Stainless Steel	Passivated	Stainless Steel	Passivated
Coupling Nut	Stainless Steel	Passivated	Stainless Steel	Passivated

### Environmental Specifications

<b>Temperature</b>	
Operating Range	-50 to +170 °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:

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High Temperature Adapter 3.5mm Male to 3.5mm Male, 34.5GHz VSWR1.25, 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.

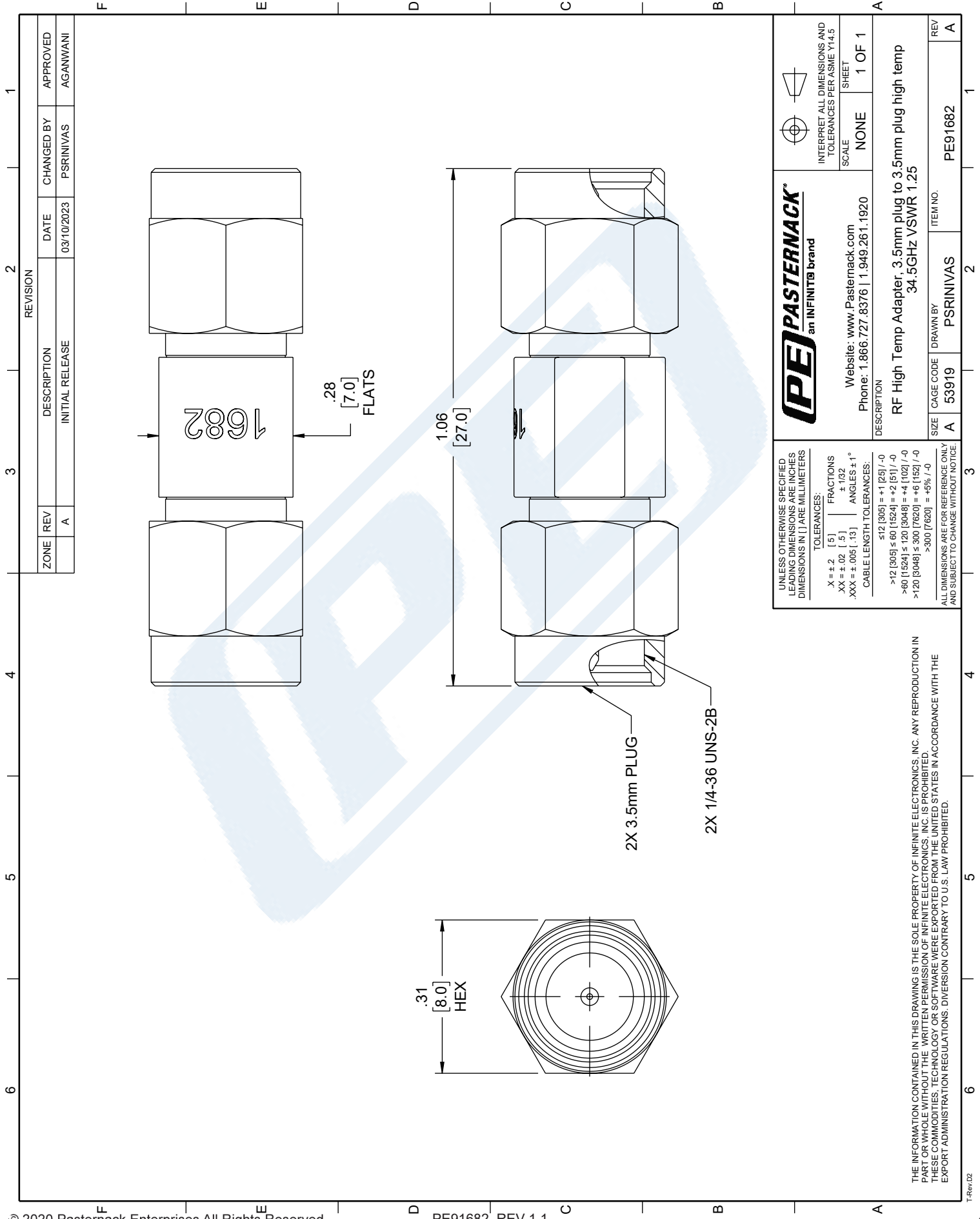
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [High Temperature Adapter 3.5mm Male to 3.5mm Male, 34.5GHz VSWR1.25, MIL-STD 348B PE91682](https://www.pasternack.com/high-temperature-adapter-3.5mm-male-to-3.5mm-male-adapter-34.5ghz-vswr1.25-mil-std-348b-pe91682-p.aspx)

URL: <https://www.pasternack.com/high-temperature-adapter-3.5mm-male-to-3.5mm-male-adapter-34.5ghz-vswr1.25-mil-std-348b-pe91682-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.

# PE91682 CAD Drawing

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an INFINITE brand

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Phone: 1.866.727.8376 | 1.949.261.1920

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE

SHEET: 1 OF 1

DESCRIPTION: RF High Temp Adapter, 3.5mm plug to 3.5mm plug high temp 34.5GHz VSWR 1.25

SIZE: A

CAGE CODE: 53919

DRAWN BY: PSRINIVAS

ITEM NO.: PE91682

REV: A