



High Temperature Adapter 2.92mm Male to 3.5mm Male, 34.5GHz VSWR1.25, MIL-STD 348B

## RF Adapters Technical Data Sheet

**PE91678**

### Configuration

- 2.92mm 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

- Allows Connection Between Series
- General Purpose Test

### Description

Pasternack's PE91678 2.92mm male to 3.5mm male adapter is part of our full line of RF components available for same-day shipping. The 2.92mm connector mates mechanically with commercially available SMA and 3.5mm connectors. Our 2.92mm to 3.5mm adapter has a male to male gender configuration built of stainless steel in a high temperature adapter design. PE91678 2.92mm male to 3.5mm male adapter operates to 34.5 GHz. The Pasternack RF adapter provides excellent VSWR of 1.25:1 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		34.5	GHz
VSWR			1.25:1	
Insertion Loss			0.24	dB
Operating Voltage (AC)			250	Vrms
Dielectric Withstanding Voltage (AC)			750	Vrms
Insulation Resistance	5,000			MOhms
RF Leakage			100	dB

### Mechanical Specifications

#### Size

Length	0.89 in [22.61 mm]
Width	0.31 in [7.87 mm]
Height	0.31 in [7.87 mm]

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 2.92mm Male to 3.5mm Male, 34.5GHz VSWR1.25, MIL-STD 348B PE91678](#)



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Weight 0.01 lbs [4.54 g]

Description	Connector 1	Connector 2
Type	2.92mm Male	3.5mm Male
Polarity	Standard	Standard
Mating Cycles, Min	500	500
Hex Size	8 mm	8 mm
Mating Torque	11.47 in-lbs [1.30 Nm] min	7.1 to 9.7 in-lbs 0.80 to 1.10 Nm
Contact Captivation Axial Force, Min	4.9 lbs [2.22 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	2.92mm 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

#### Temperature

Operating Range -50 to +170 °C

#### Humidity

Thermal Shock

Salt Spray

MIL-STD-202, Method 206

MIL-STD-202, Method 107, Condition B

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 2.92mm 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.

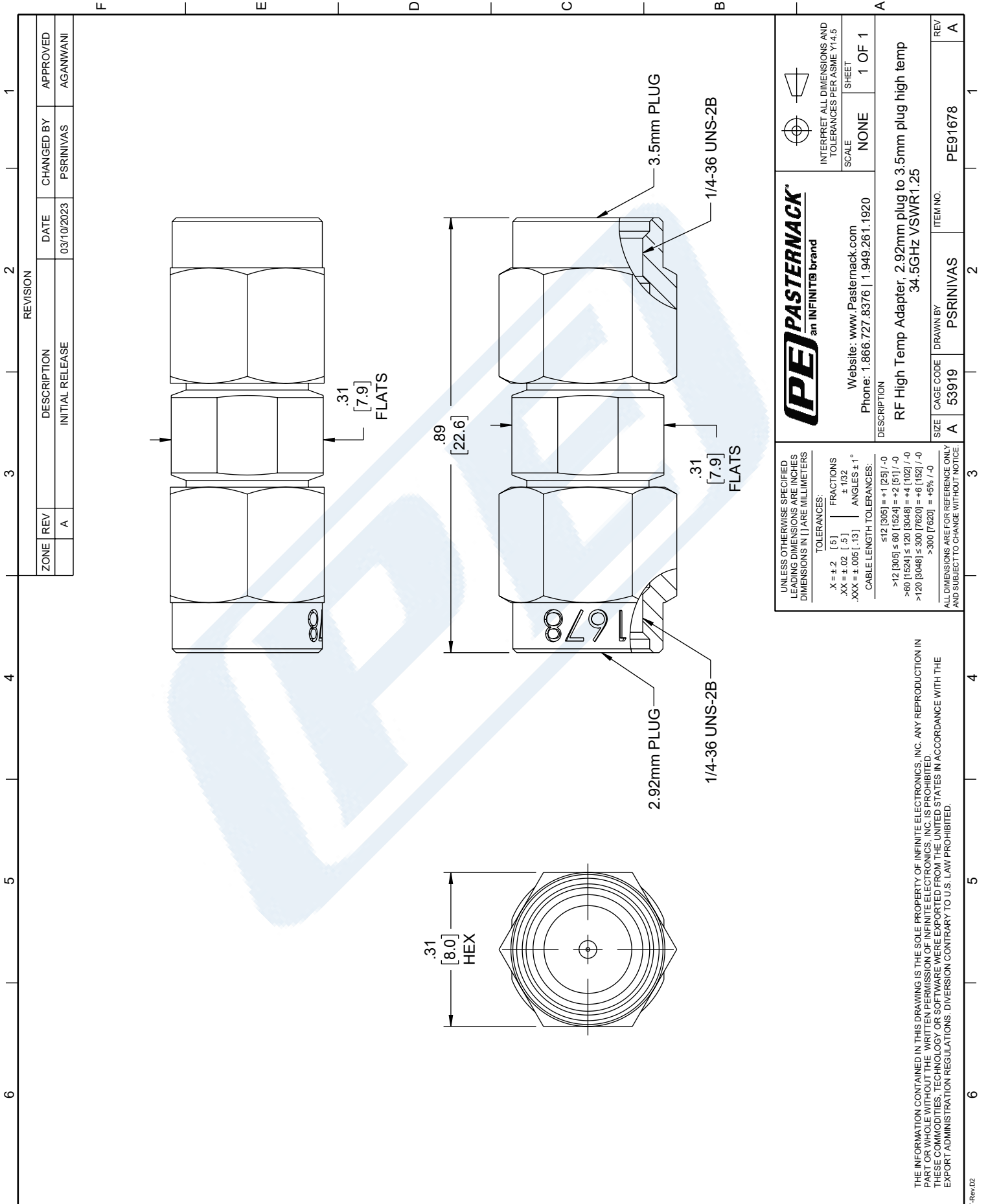
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [High Temperature Adapter 2.92mm Male to 3.5mm Male, 34.5GHz VSWR1.25, MIL-STD 348B PE91678](https://www.pasternack.com/high-temperature-adapter-2.92mm-male-to-3.5mm-male-adapter-34.5ghz-vswr1.25-mil-std-348b-pe91678)

URL: <https://www.pasternack.com/high-temperature-adapter-2.92mm-male-to-3.5mm-male-adapter-34.5ghz-vswr1.25-mil-std-348b-pe91678-p.aspx>

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# PE91678 CAD Drawing

High Temperature Adapter 2.92mm Male to 3.5mm Male,  
34.5GHz VSWR1.25, MIL-STD 348B



ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
A		INITIAL RELEASE	03/10/2023	PSRINIVAS	AGANWANI

REVISION	1	2	3	4	5	6
DESCRIPTION						
DATE						
CHANGED BY						
APPROVED						

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

TOLERANCES:  
 X = ±.2 [5] | FRACTIONS ± 1/32  
 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

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an INFINITE brand

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Phone: 1.866.727.8376 | 1.949.261.1920

SCALE: NONE  
SHEET: 1 OF 1

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

DESCRIPTION: RF High Temp Adapter, 2.92mm plug to 3.5mm plug high temp 34.5GHz VSWR1.25

SIZE: A  
CAGE CODE: 53919  
DRAWN BY: PSRINIVAS  
ITEM NO.: PE91678