



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

### RF Adapters Technical Data Sheet

**PE91685**

#### Configuration

- 3.5mm Female Connector 1
- 3.5mm Female 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 PE91685 3.5mm female to 3.5mm 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 3.5mm adapter has a female to female gender configuration built of stainless steel in a high temperature adapter design. PE91685 3.5mm female to 3.5mm female 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			0.3	dB
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Insulation Resistance	5,000			MOhms
RF Leakage			100	dB

#### Mechanical Specifications

##### Size

Length	0.98 in [24.89 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 3.5mm Female to 3.5mm Female, 34.5GHz VSWR1.25, MIL-STD 348B PE91685](#)



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Weight 0.01 lbs [4.54 g]

Description	Connector 1	Connector 2
Type	3.5mm Female	3.5mm Female
Polarity	Standard	Standard
Mating Cycles, Min	500	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 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 Female		3.5mm Female	
Contact	Beryllium Copper	Gold over Nickel	Beryllium Copper	Gold over Nickel
Insulation	PEI		PEI	
Body	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 3.5mm Female to 3.5mm Female, 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.

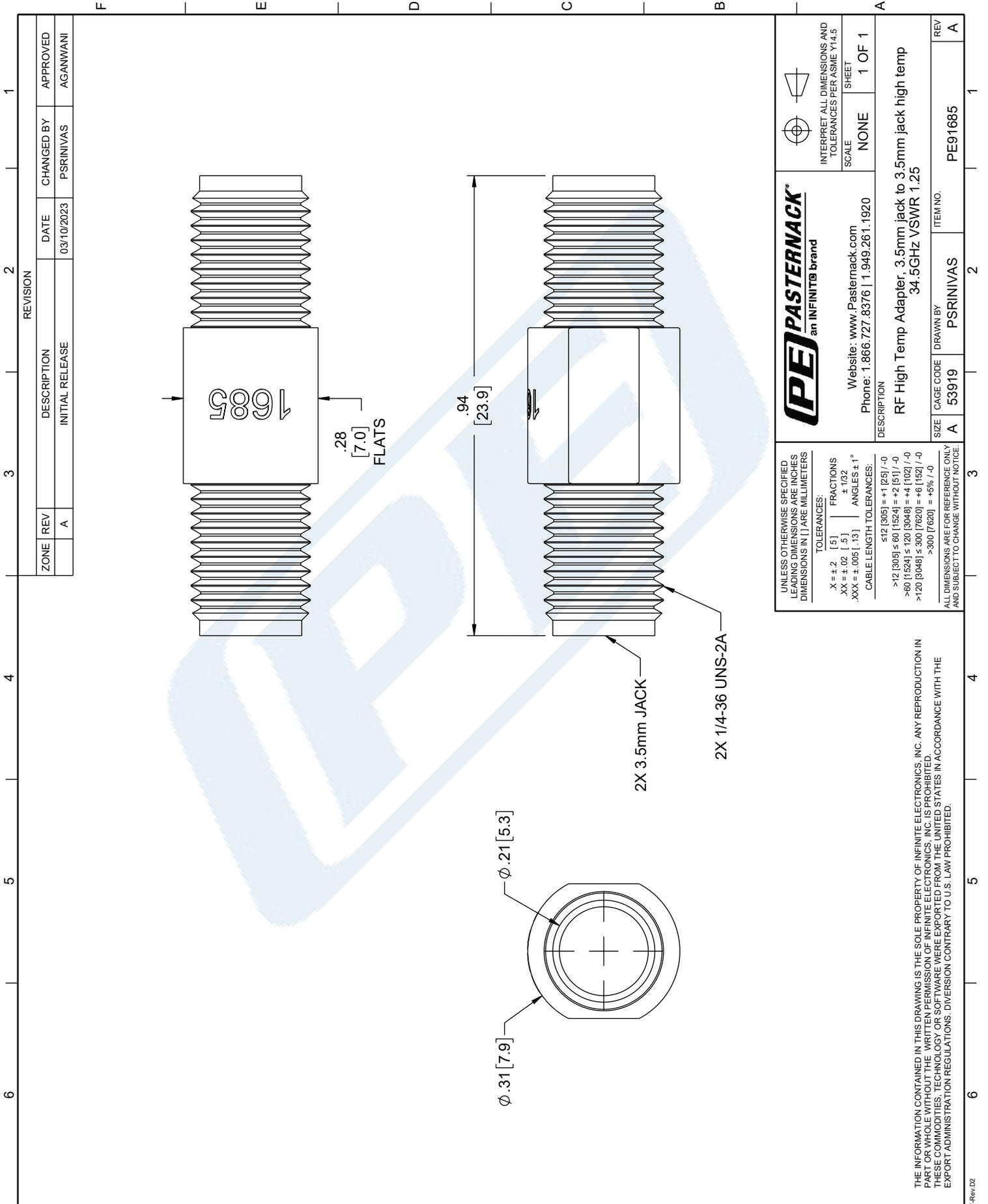
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [High Temperature Adapter 3.5mm Female to 3.5mm Female, 34.5GHz VSWR1.25, MIL-STD 348B PE91685](https://www.pasternack.com/high-temperature-adapter-3.5mm-female-to-3.5mm-female-adapter-34.5ghz-vswr1.25-mil-std-348b-pe91685)

URL: <https://www.pasternack.com/high-temperature-adapter-3.5mm-female-to-3.5mm-female-adapter-34.5ghz-vswr1.25-mil-std-348b-pe91685-p.aspx>

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# PE91685 CAD Drawing

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



REVISION			
ZONE	REV	DESCRIPTION	DATE
A		INITIAL RELEASE	03/10/2023

CHANGED BY	APPROVED
PSRINIVAS	AGANWANI

SCALE	SHEET
NONE	1 OF 1

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] ≤ 60 [1524] = +1 [25] / -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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Website: [www.Pasternack.com](http://www.Pasternack.com)  
 Phone: 1.866.727.8376 | 1.949.261.1920

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

SIZE | CAGE CODE | DRAWN BY | ITEM NO.  
 A | 53919 | PSRINIVAS | PE91685

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

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REV A