



High Temperature Adapter Bulkhead Mount 3.5mm
Female to 3.5mm Female Adapter, IP67 Rated
34.5GHz VSWR1.25, MIL-STD 348B

RF Adapters Technical Data Sheet

PE91686

Configuration

- 3.5mm Female Connector 1
- 3.5mm Female Connector 2
- 50 Ohm
- High Temperature Adapter Design
- Straight Body Geometry
- Bulkhead Mount Method

Features

- Max VSWR of 1.25:1 up to 34.5 GHz
- Rated IP67
- Gold over Nickel Plated Beryllium Copper Contact

Applications

- General Purpose Test
- Rack Mounted Equipment

Description

Pasternack's PE91686 bulkhead 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. PE91686 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. 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
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 0.92 in [23.37 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 Bulkhead Mount 3.5mm Female to 3.5mm Female Adapter, IP67 Rated 34.5GHz VSWR1.25, MIL-STD 348B PE91686](#)



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Width	0.50 in [12.70 mm]
Height	0.50 in [12.70 mm]
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

Ingress Protection (IP) Rating

IP67

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 Bulkhead Mount 3.5mm Female to 3.5mm Female Adapter, IP67 Rated 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.

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URL: <https://www.pasternack.com/high-temperature-adapter-bulkhead-mount-3.5mm-female-to-3.5mm-female-adapter-ip67-rated-34.5ghz-vswr1.25-mil-std-348b-pe91686-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.

PE91686 CAD Drawing

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