

Engineering Grade SMA Male (Plug) to Mini SMP Male (Plug) Full Detent Adapter with Passivated Stainless Steel Body



FMAD10172

Configuration

- SMA Male Connector 1
- Full Detent Mini SMP Male Connector 2
- 50 Ohms Impedance
- Engineering Grade Design
- Straight Body Geometry

Features

- VSWR of 1.2:1 max up to 27 GHz
- SMA interface meets MIL-STD-348B
- Mini SMP interface meets MIL-STD-348B
- Gold over Nickel Alloy over Copper Plated Brass Contact

Applications

- Enables Between Series Connections
- General Purpose Test

Description

SMA male to Mini SMP male full detent adapter part number FMAD10172 from Fairview Microwave is in-stock and ships same day. This Fairview SMA to Mini SMP adapter has a male to male gender configuration and is built of durable stainless steel in a engineering grade design. FMAD10172 SMA male to Mini SMP male adapter operates to 27 GHz. The Fairview Microwave RF adapter provides excellent VSWR of 1.2:1 maximum. The SMA connector mates mechanically with commercially available 3.5mm and 2.92mm (K) connectors.

RF adapters can be used to enable connections between two connector types that would otherwise not mate. Certain RF adapter configurations can also be used to protect connectors on expensive equipment where the number of connect and 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. Fairview Microwave 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		27	GHz
Impedance		50		Ohms
VSWR			1.2:1	
Insertion Loss			0.311	dB
Operating Voltage (AC)			325	Vrms
Dielectric Withstanding Voltage (AC)			500	Vrms
Insulation Resistance	5,000			MOhms

Electrical Specification Notes:
Insertion loss = $0.06 \cdot \sqrt{\text{FGHz}}$ dB

Mechanical Specifications

Size

Length	0.72 in [18.19 mm]
Width	0.31 in [7.98 mm]
Height	0.31 in [7.98 mm]
Weight	0.05 lbs [22.68 g]

Engineering Grade SMA Male (Plug) to Mini SMP Male (Plug) Full Detent Adapter with Passivated Stainless Steel Body



FMAD10172

Description	Connector 1	Connector 2
Polarity	Standard	Standard
Interface Specification	MIL-STD-348B	MIL-STD-348B
Mating Cycles, Min	500	100
Mating Torque	7 to 9.5 in-lbs 0.79 to 1.07 Nm	
Contact Captivation Axial Force, Min	6.1 lbs [2.77 kg]	1.5 lbs [680.39 g]
Coupling Proof Torque	15 in-lbs [1.7 Nm]	
Coupling Retention, Min	60.7 lbs [27.53 kg]	

Mechanical Specification Notes:
Engagement Force: 3.5lbs typ
Disengagement Force: 5.0lbs typ

Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	SMA Male		Full Detent Mini SMP Male	
Contact	Brass	Gold over Nickel Alloy over Copper	Brass	Gold over Nickel Alloy over Copper
Insulation	PEI		PTFE	
Outer Conductor	Passivated Stainless Steel		Passivated Stainless Steel	
Body	Passivated Stainless Steel		Passivated Stainless Steel	
Gasket	Silicone		Silicone	

Environmental Specifications

Temperature

Operating Range

Humidity

Thermal Shock

Salt Spray

-40 to +165 °C

MIL-STD-202, Method 106

MIL-STD-202, Method 107, Condition B

MIL-STD-202, Method 101, Condition B

Engineering Grade SMA Male (Plug) to Mini SMP Male (Plug) Full Detent Adapter with Passivated Stainless Steel Body



FMAD10172

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Engineering Grade SMA Male (Plug) to Mini SMP Male (Plug) Full Detent Adapter with Passivated Stainless Steel Body from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Engineering Grade SMA Male \(Plug\) to Mini SMP Male \(Plug\) Full Detent Adapter with Passivated Stainless Steel Body FMAD10172](#)

URL: <https://www.fairviewmicrowave.com/product/rf-adapters/engineering-grade-sma-male-to-mini-smp-male-full-detent-adapter-mil-std-202-method-106-with-passivated-stainless-steel-body-fmad10172.html>

The information contained within 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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

FMAD10172 CAD Drawing

Engineering Grade SMA Male (Plug) to Mini SMP Male (Plug) Full Detent Adapter with Passivated Stainless Steel Body

