

Coaxial

# Adapter *SMP-Male to 2.4mm-Male*

**SMPM-24M+**

50Ω DC to 40 GHz

## The Big Deal

- Ultra-wideband, DC-40 GHz
- Flat response
- Low insertion loss, 0.27 dB typ.
- Excellent VSWR, 1.1:1 typ.
- SMP-Male with full detent



CASE STYLE: DJ2382-2

## Product Overview

Mini-Circuits' SMPM-24M+ is a 50Ω coaxial SMP-Male (Snap-on) to 2.4mm-Male adapter supporting a wide range of applications from DC to 40 GHz. This model provides excellent VSWR, low insertion loss, and flat response versus frequency. The SMPM-24M+ features passivated stainless steel body and measures only 0.82" (l) x 0.28" (dia.)

## Key Features

Feature	Advantages
Wide band, DC to 40 GHz	Wide frequency range provides application flexibility and makes this model ideal for broad-band and multi-band use.
Excellent VSWR, 1.1:1 typ.	Provides good matching for 50Ω systems and minimizes signal reflections across wide frequency range.
Low insertion loss, 0.27 dB typ.	Provides excellent signal power transmission from input to output.
Full Detent: Force needed to mate, 9 lbs, Force needed to de-mate, 7 lbs	Prevents the connector from detaching accidentally
Rugged, passivated stainless steel construction	Stands up to wear and tear in demanding environments and provides excellent reliability.
Very wide operating temperature range, -55 to +100°C	Withstands extreme operating conditions and is suitable for use near high power components where heat rise is common.

### Notes

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.  
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.  
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# Coaxial Adapter *SMP-Male to 2.4 mm-Male*

## SMPM-24M+

50Ω DC to 40 GHz

5G, KA/KU band Satellite Comm



Generic photo used for illustration purposes only

CASE STYLE: DJ2382-2

### Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C

Permanent damage may occur if any of these limits are exceeded.

### Features

- flat response
- excellent VSWR, 1.1 typ. up to 40 GHz
- Rugged stainless steel body
- SMP-Male with full detent

### Applications

- 5G
- KA/KU band
- Satellite Comm

Connectors	Model
SMP-Male to 2.4mm-Male	SMPM-24M+

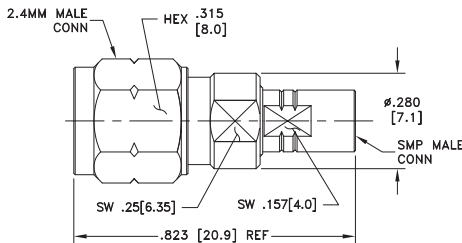
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### Electrical Specifications at 25°C

Parameter	Condition (GHz)	Min.	Typ.	Max.	Units
Frequency Range		DC		40	GHz
Insertion Loss	DC - 40	—	0.27	0.8	dB
VSWR	DC - 40	—	1.10	1.35	:1

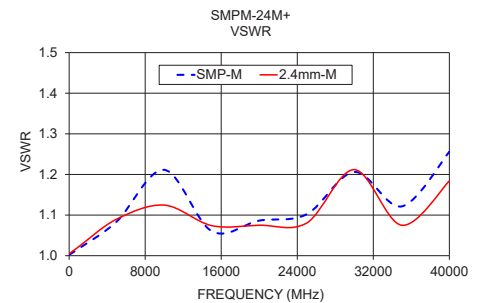
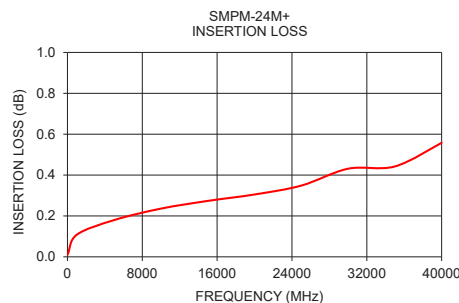
### Outline Drawing



Weight: 4.66 grams  
Dimensions are in inches [mm].

### Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
		SMP-Male	2.4mm-M
10	0.01	1.00	1.00
1000	0.11	1.02	1.02
5000	0.18	1.08	1.09
10000	0.24	1.21	1.12
15000	0.27	1.06	1.07
20000	0.31	1.09	1.08
25000	0.35	1.10	1.08
30000	0.43	1.21	1.21
35000	0.44	1.12	1.07
40000	0.56	1.26	1.18



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