

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.
C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp



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

50Ω DC to 40 GHz

SMPM-24M+



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

- interconnection of RF cable and equipment

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

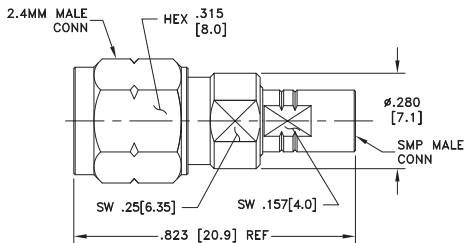
+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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

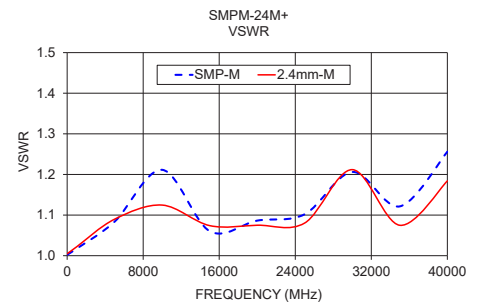
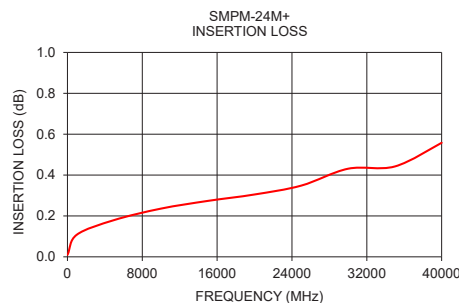
Outline Drawing



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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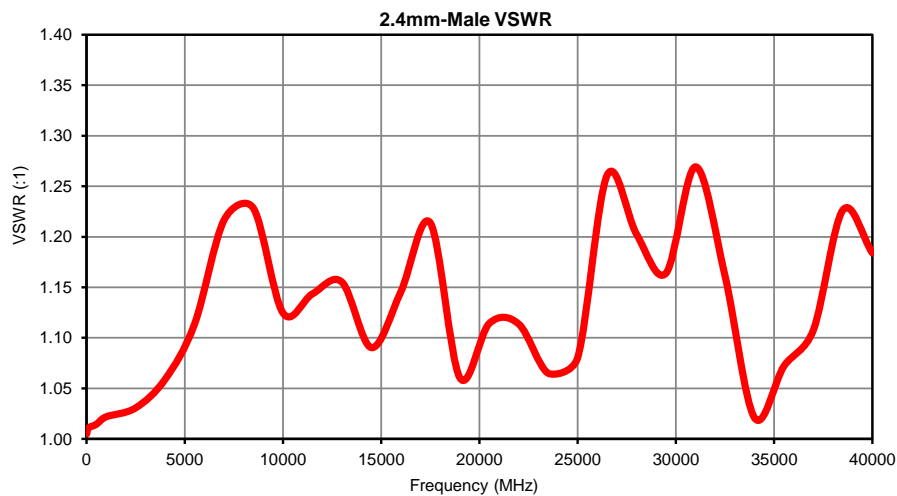
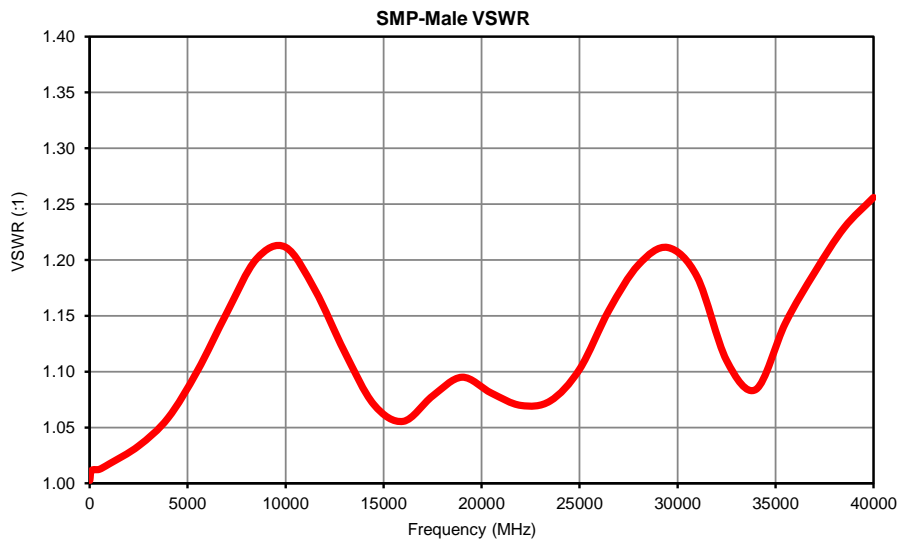
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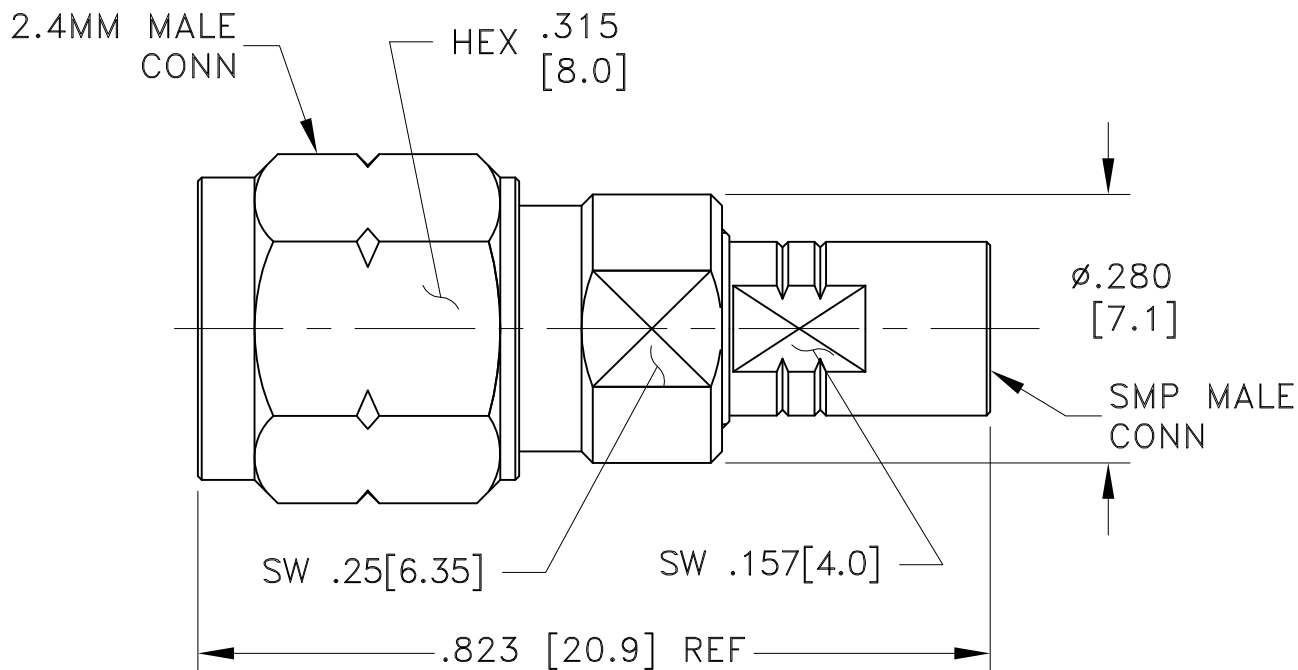
REV. A
ECO-001630
SMPM-24M+
RD/RS/CP
200203

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	SMP-MALE VSWR (:1)	2.4mm-MALE VSWR (:1)
10	0.01	1.00	1.00
100	0.04	1.01	1.01
500	0.09	1.01	1.01
1000	0.11	1.02	1.02
2500	0.13	1.03	1.03
4000	0.16	1.06	1.06
5500	0.19	1.10	1.11
7000	0.23	1.15	1.22
8500	0.25	1.20	1.23
10000	0.24	1.21	1.12
11500	0.27	1.17	1.14
13000	0.28	1.12	1.16
14500	0.28	1.07	1.09
16000	0.29	1.06	1.15
17500	0.31	1.08	1.21
19000	0.29	1.09	1.06
20500	0.32	1.08	1.11
22000	0.33	1.07	1.11
23500	0.33	1.07	1.06
25000	0.35	1.10	1.08
26500	0.40	1.15	1.26
28000	0.38	1.20	1.20
29500	0.41	1.21	1.16
31000	0.45	1.18	1.27
32500	0.42	1.11	1.16
34000	0.44	1.08	1.02
35500	0.43	1.14	1.07
37000	0.46	1.19	1.11
38500	0.53	1.23	1.23
40000	0.56	1.26	1.18

Typical Performance Curves





Weight: 4.66 grams

Dimensions are in inches [mm]. Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$

Notes:

1. Case material: Stainless steel.
2. Finish: Passivation.

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RF/IF MICROWAVE COMPONENTS



All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 105° C or -55° to 85° C (see datasheet) Ambient Environment	Individual Model Data sheet
Storage Temperature	-55° to 105° C or -55° to 85° C (see data sheet) Ambient Environment	Individual Model Data Sheet
Thermal Shock	-55° to 100°C, 100 Cycles	MIL-STD-202F; Method 107G
Multiple Bend Radius	40 mm, 5 times for 141 series cables 30 mm, 5 times for 086 series cables	
Single Bend Radius	8 mm for 141 series cables 6 mm for 086 series cables	