



KEY FEATURES

- DC to 26.5 GHz
- Low Insertion Loss, 0.06 dB Typ.
- Excellent VSWR, 1.05:1 Typ.
- Straight Body



Generic photo used for illustration purposes only

PRODUCT OVERVIEW

Mini-Circuits' SM-SM50-27+ is a coaxial SMA-Male to SMA-Male adapter supporting a wide range of applications from DC to 26.5 GHz. This model provides excellent VSWR and low insertion loss versus frequency. The SM-SM50-27+ features passivated stainless-steel construction and measures only 0.87" in length.

ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Frequency (GHz)	Min.	Typ.	Max.	Units
Frequency Range		DC		26.5	GHz
Insertion Loss	0.01-12	-	0.04	0.40	dB
	12-18	-	0.06	0.40	
	18-26.5	-	0.07	0.40	
VSWR	0.01-12	-	1.04	1.20	:1
	12-18	-	1.04	1.20	
	18-26.5	-	1.06	1.20	

ABSOLUTE MAXIMUM RATINGS¹

Operating Case Temperature	-45°C to +125°C
Storage Temperature	-45°C to +125°C

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



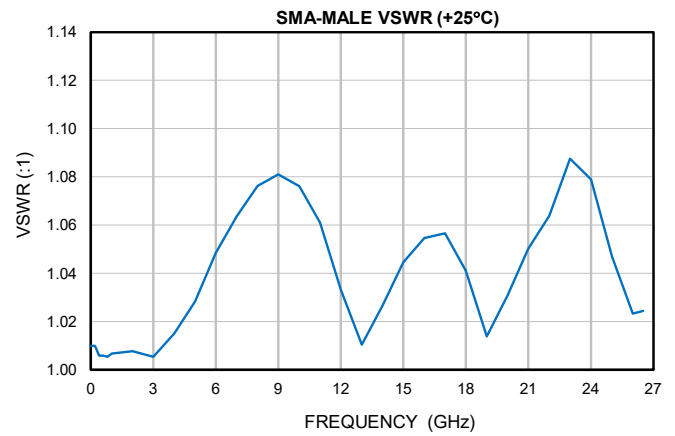
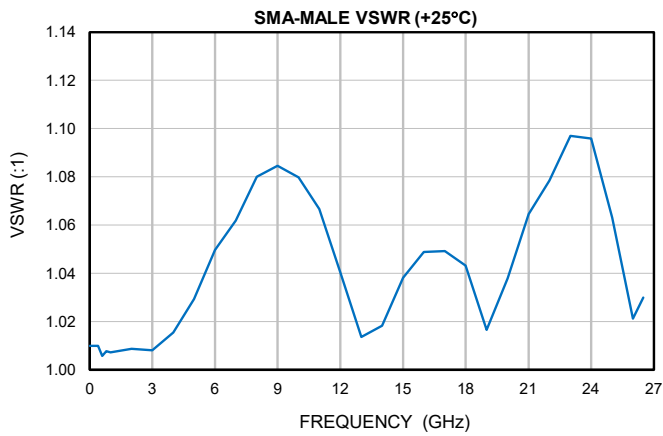
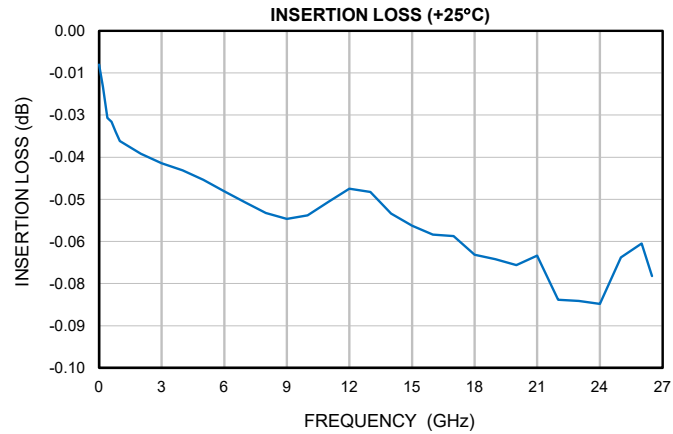
COAXIAL

Adapter

SM-SM50-27+

50Ω DC to 26.5 GHz SMA-Male to SMA-Male

TYPICAL PERFORMANCE GRAPHS

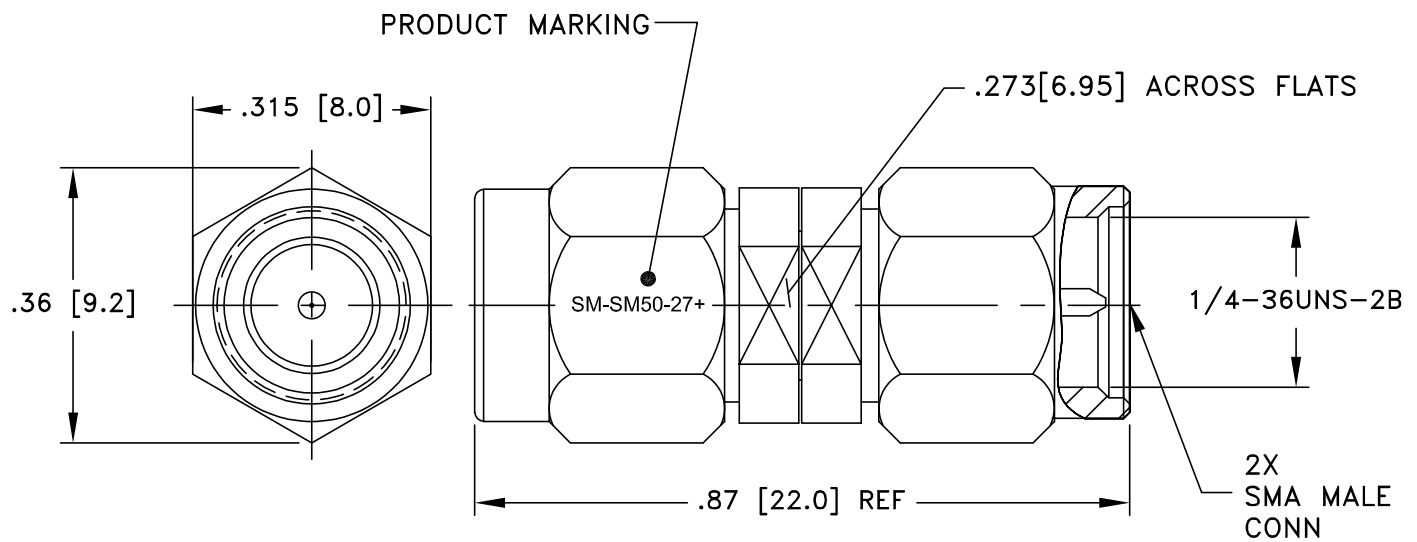




CONNECTOR SPECIFICATIONS

Description	Connector 1	Connector 2
Connector Type	SMA Male	SMA Male
Orientation	Straight	Straight

CASE STYLE DRAWING



Weight: 4.9 grams

Dimensions are in inches [mm]. Tolerances: 2 Pl. ± 0.030 ; 3 Pl. ± 0.015 Inches

PRODUCT MARKING*: SM-SM50-27+

*Marking may contain other features or characters for internal lot control.



Mini-Circuits

COAXIAL

Adapter

SM-SM50-27+

50Ω DC to 26.5 GHz SMA-Male to SMA-Male

ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD [CLICK HERE](#)

Performance Data & Graphs	Data
	Graphs
	S-Parameter (S2P Files) Data Set (.zip file)
Case Style	DJ3488-2
RoHS Status	Compliant
Environmental Ratings	ENV28T2

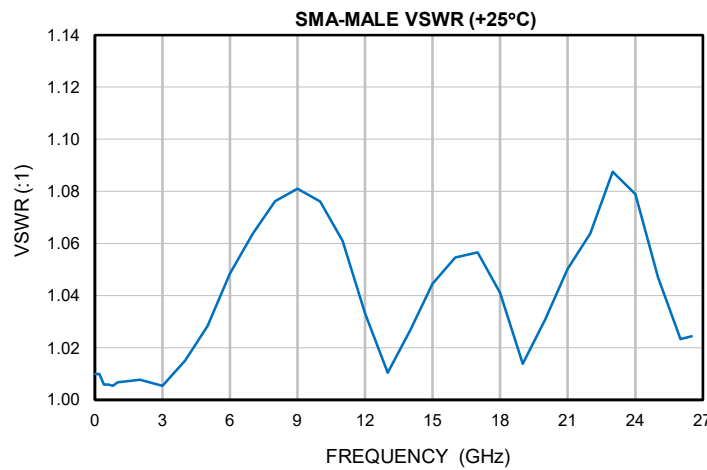
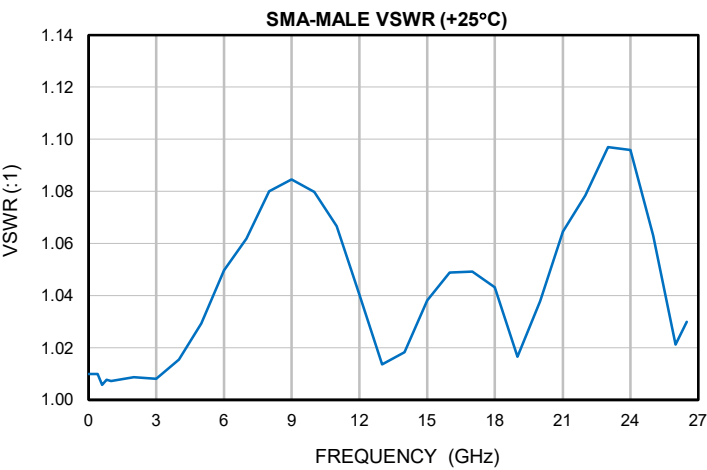
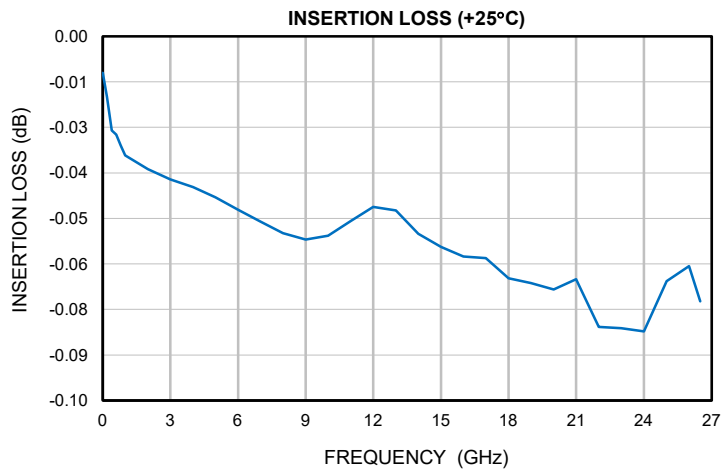
- NOTES**
- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based 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/terms/viewterm.html

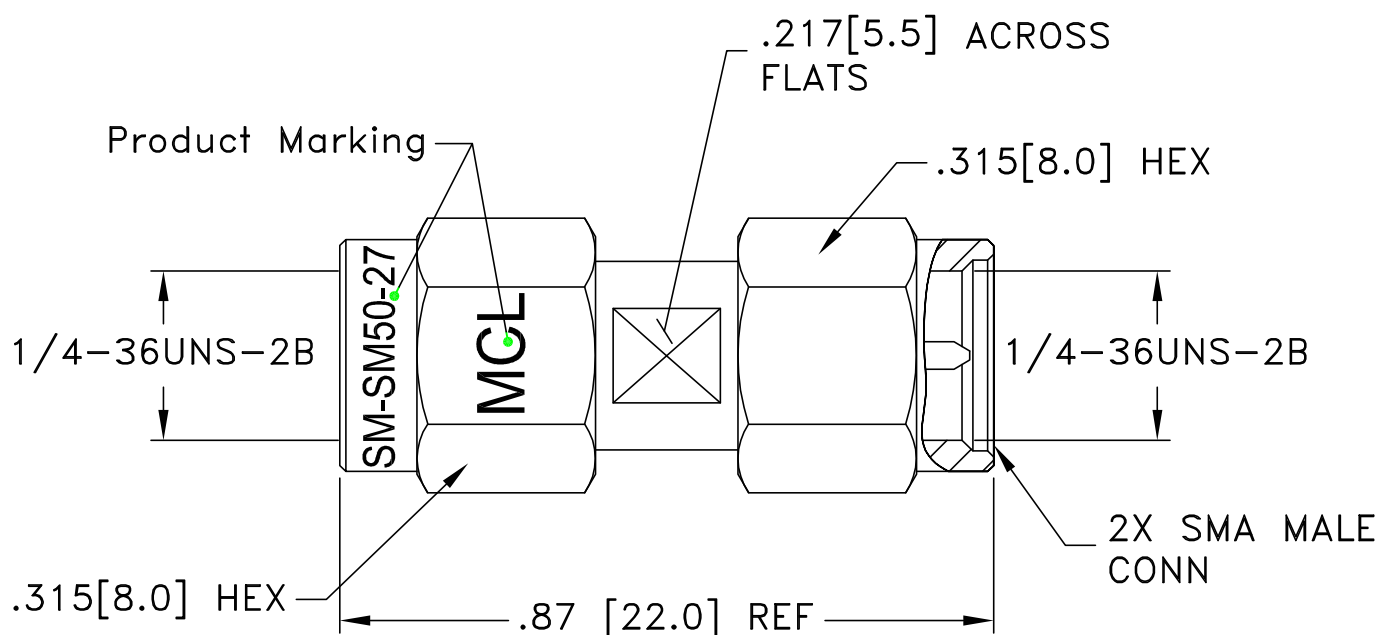


Adaptor SMA-Male to SMA-Male**SM-SM50-27+***Typical Performance Data*

FREQ.	INSERTION LOSS	SMA-Male VSWR	SMA-Male VSWR
(GHz)	(dB)	(:1)	(:1)
0.01	0.01	1.01	1.01
0.2	0.02	1.01	1.01
0.4	0.03	1.01	1.01
0.6	0.03	1.01	1.01
0.8	0.03	1.01	1.01
1.0	0.03	1.01	1.01
2.0	0.04	1.01	1.01
3.0	0.04	1.01	1.01
4.0	0.04	1.02	1.02
5.0	0.04	1.03	1.03
6.0	0.05	1.05	1.05
7.0	0.05	1.06	1.06
8.0	0.05	1.08	1.08
9.0	0.06	1.08	1.08
10.0	0.05	1.08	1.08
11.0	0.05	1.07	1.06
12.0	0.05	1.04	1.03
13.0	0.05	1.01	1.01
14.0	0.05	1.02	1.03
15.0	0.06	1.04	1.04
16.0	0.06	1.05	1.05
17.0	0.06	1.05	1.06
18.0	0.07	1.04	1.04
19.0	0.07	1.02	1.01
20.0	0.07	1.04	1.03
21.0	0.07	1.06	1.05
22.0	0.08	1.08	1.06
23.0	0.08	1.10	1.09
24.0	0.08	1.10	1.08
25.0	0.07	1.06	1.05
26.0	0.06	1.02	1.02
26.5	0.07	1.03	1.02

Typical Performance Curves





Weight: 4.9 grams

Dimensions are in inches [mm]. Tolerances: 2 Pl. ± 0.030 ; 3 Pl. ± 0.015 Inches

Notes:

Case material: Stainless steel.
Case Finish: Passivated.

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