



Mini-Circuits

COAXIAL

Adapter

SM-SM50-27+

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

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

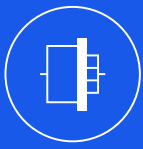
Parameter	Frequency (GHz)	Min.	Typ.	Max.	Units
Frequency Range		DC		26.5	GHz
Insertion Loss	0.01-12	-	0.04	0.40	dB
	12-18	-	0.06	0.40	
	18-26.5	-	0.07	0.40	
VSWR	0.01-12	-	1.04	1.20	:1
	12-18	-	1.04	1.20	
	18-26.5	-	1.06	1.20	

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.





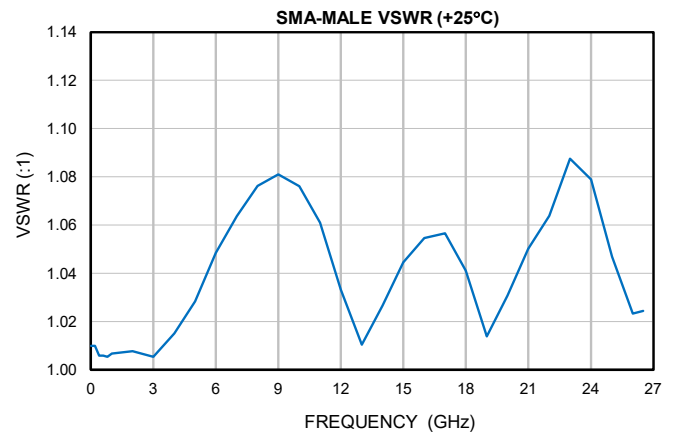
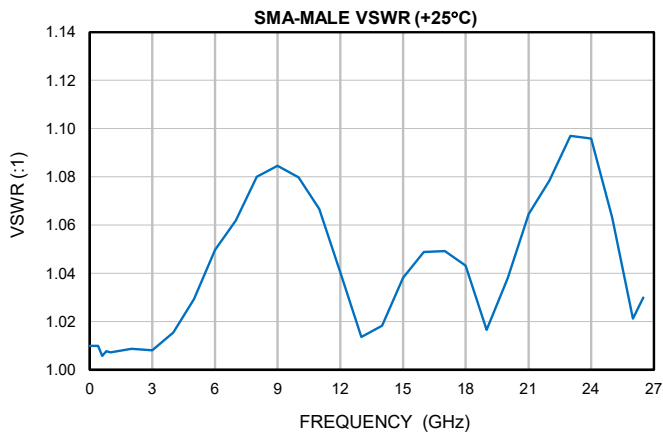
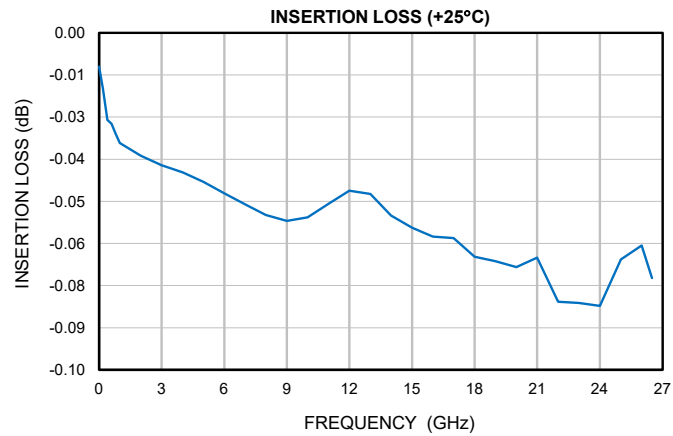
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TYPICAL PERFORMANCE GRAPHS

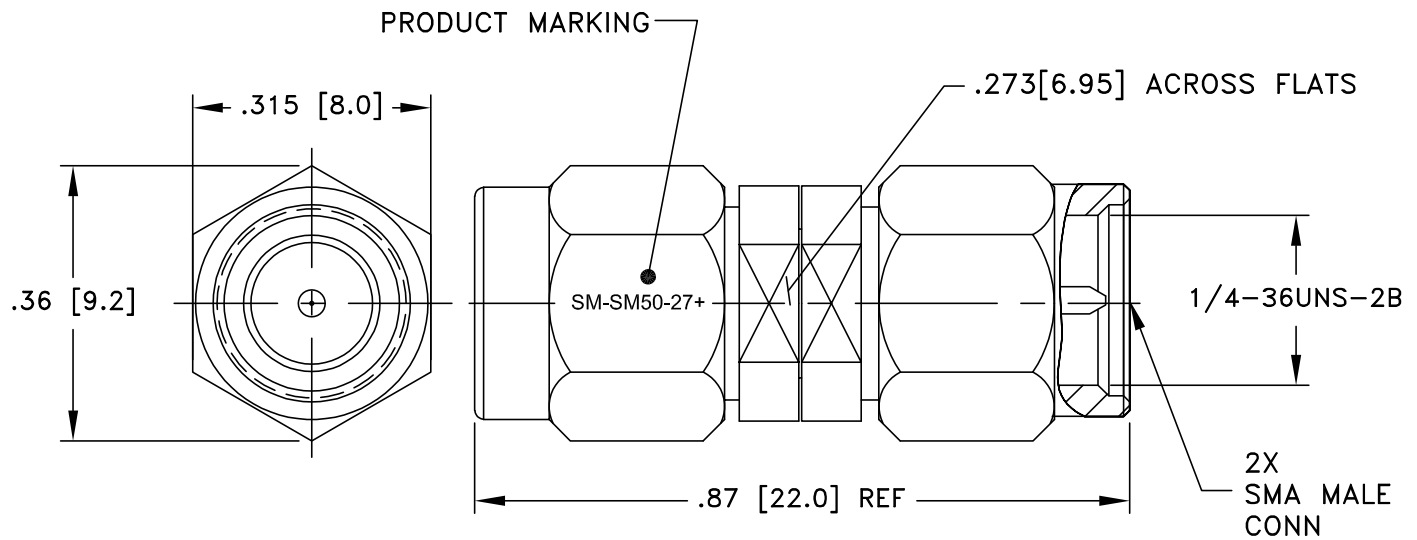




CONNECTOR SPECIFICATIONS

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. $\pm .030$; 3 Pl. $\pm .015$ Inches

PRODUCT MARKING*: SM-SM50-27+

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



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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



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