



## KEY FEATURES

- Wideband, DC to 27 GHz
- Low Insertion Loss, 0.05 dB Typ.
- Excellent VSWR, 1.08:1 Typ.



Generic photo used for illustration purposes only

## PRODUCT OVERVIEW

Mini-Circuits' SF-SM50-27+ is a coaxial SMA Female to SMA Male adapter supporting a wide range of applications from DC to 27 GHz. This model provides excellent VSWR and low insertion loss versus frequency. The SF-SM50-27+ features passivated stainless-steel construction and measures only 0.72" in length.

## ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Condition (GHz)	Min.	Typ.	Max.	Units
Frequency Range		DC		27	GHz
Insertion Loss	DC-12	—	0.03	0.3	dB
	12-18	—	0.05	0.3	
	18-27	—	0.07	0.3	
VSWR	DC-12	—	1.04	1.20	:1
	12-18	—	1.08	1.20	
	18-27	—	1.12	1.20	

ABSOLUTE MAXIMUM RATINGS<sup>1</sup>

Parameter	Ratings
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.



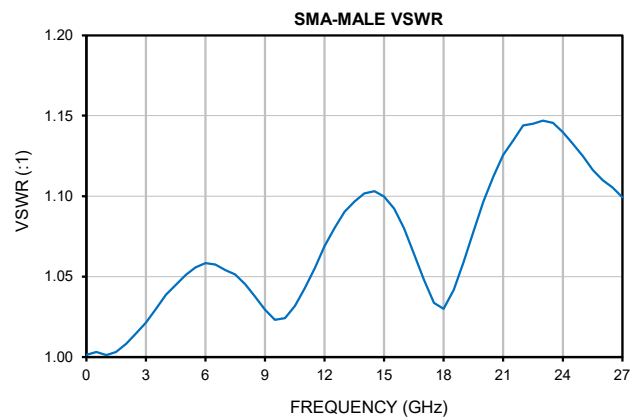
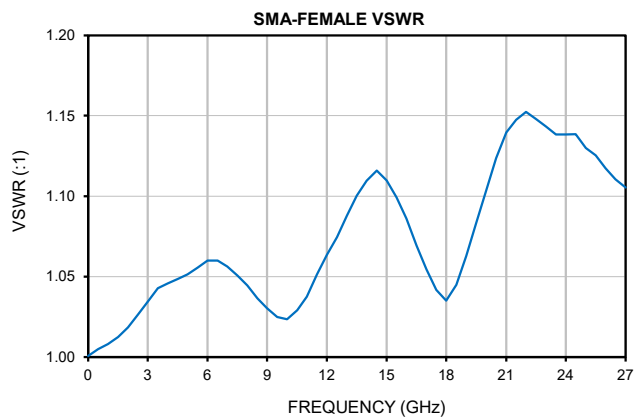
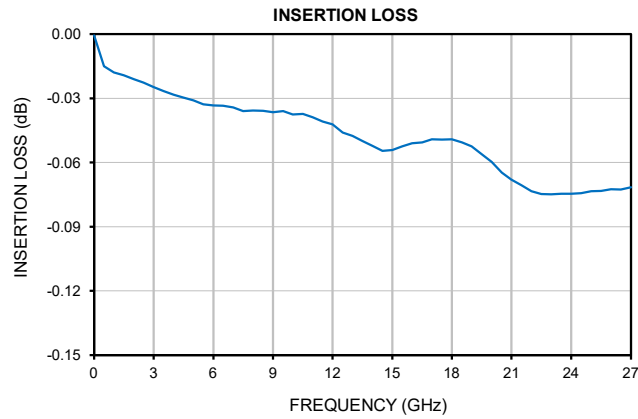
COAXIAL

# Adapter

SF-SM50-27+

50 $\Omega$  DC to 27 GHz SMA-Female to SMA-Male

## TYPICAL PERFORMANCE GRAPHS

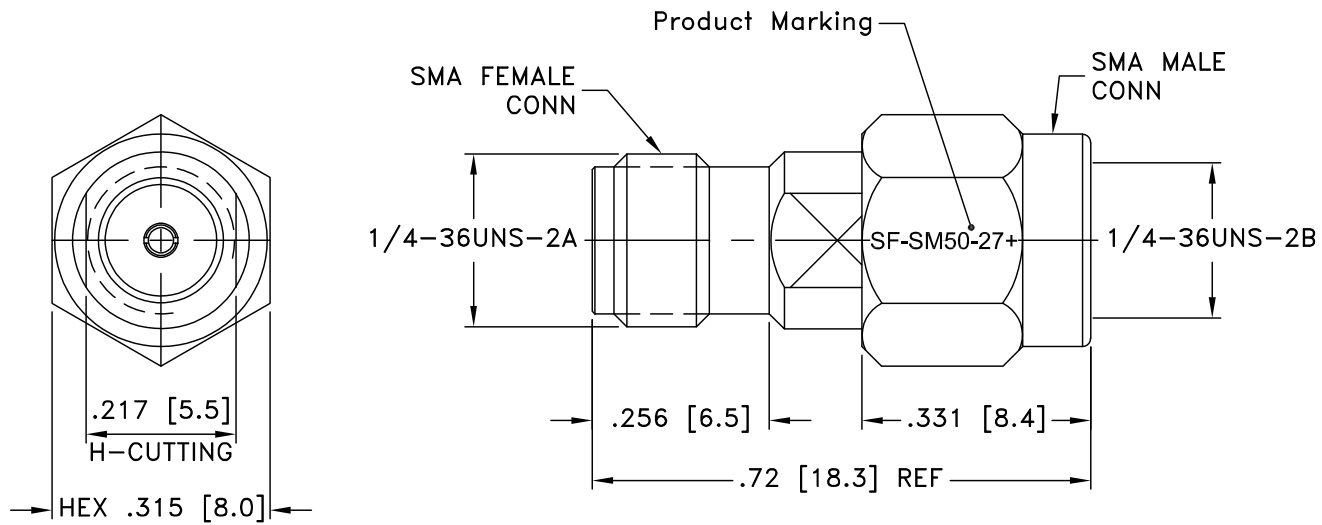




## CONNECTOR SPECIFICATIONS

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

## CASE STYLE DRAWING



Weight: 3.1 grams

Dimensions are in inches [mm]. Tolerances: 2 Pl. ±.030; 3 Pl. ±.015 Inches

## PRODUCT MARKING\*: SF-SM50-27+

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



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SF-SM50-27+

50Ω DC to 27 GHz SMA-Female 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	DJ3488-1
RoHs Status	Compliant
Environmental Ratings	ENV70T4

## 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](http://www.minicircuits.com/terms/viewterm.html)



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