COAXIAL

Adapter

SFFL-SM50+

50Ω DC to 18 GHz SMA Female Flange to SMA Male

KEY FEATURES

- Wideband, DC to 18 GHz
- Low Insertion Loss, 0.06 dB Typ.
- Passivated Stainless Steel
- Four-Hole Flange Mount

Generic photo used for illustration purposes only

PRODUCT OVERVIEW

Mini-Circuits' SFFL-SM50+ is a coaxial flange-mount SMA Female to SMA Male adapter supporting a wide range of applications from DC to 18 GHz. This model provides excellent VSWR and low insertion loss versus frequency. The SFFL-SM50+ features passivated stainless-steel construction and measures only 0.80" in length.

ELECTRICAL SPECIFICATIONS AT +25°C, Z_0 = 50Ω[1]

Parameter	Frequency (GHz)	Min.	Typ.	Max.	Units
Frequency Range	-	DC	-	18	GHz
Insertion Loss	DC-10	-	0.05	0.1	dB
	10-18	-	0.06	0.2	
VSWR	DC-10	-	1.02	1.15	:1
	10-18	-	1.07	1.17	

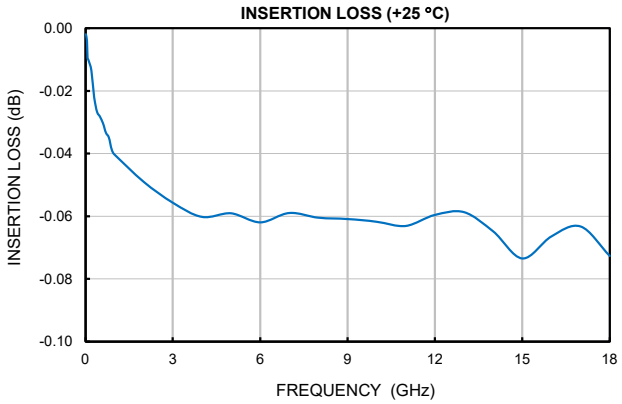
1. Specifications are tested to minimum frequency of 0.01 GHz.

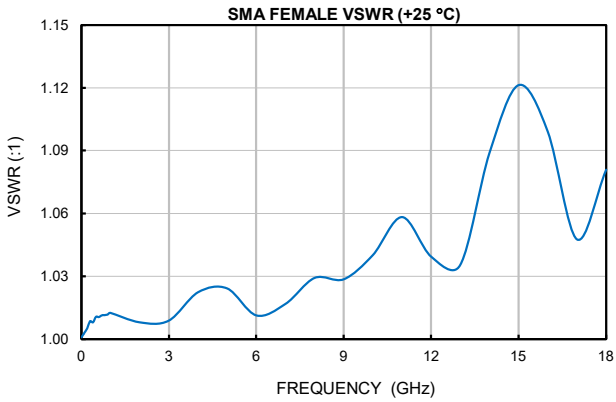
ABSOLUTE MAXIMUM RATINGS[2]

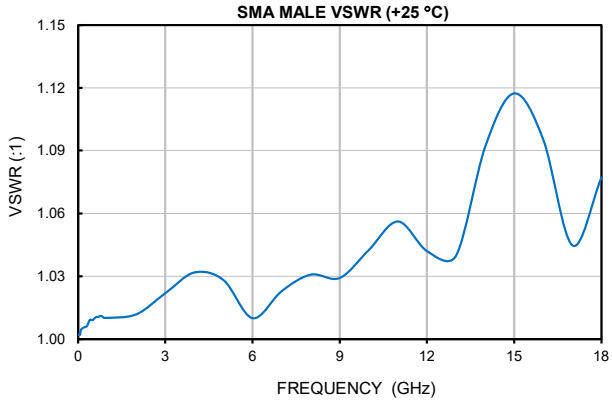
Operating Case Temperature	-40 °C to +100 °C
Storage Temperature	-55 °C to +100 °C

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

TYPICAL PERFORMANCE GRAPHS







COAXIAL

Adapter

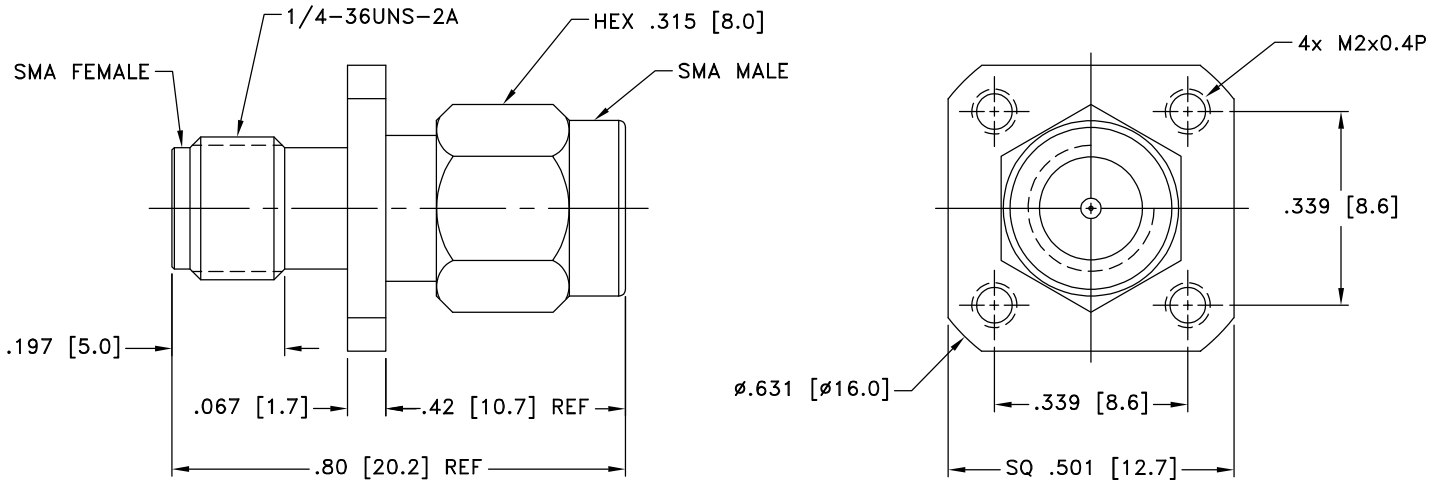
SFFL-SM50+

50Ω DC to 18 GHz SMA Female Flange to SMA Male

CONNECTOR SPECIFICATIONS

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

CASE STYLE DRAWING



Weight: 5.3 grams
Dimensions are in inches [mm]. Tolerances: 2 Pl.±0.3; 3 Pl. ± .015 inches

PRODUCT MARKING*: SFFL-SM50+

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

COAXIAL

Adapter

SFFL-SM50+

50Ω DC to 18 GHz SMA Female Flange 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	DJ1821-3
RoHS Status	Compliant
Environmental Ratings	ENV72

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-Circuits' 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