



COAXIAL

# Adapter

## 10F-10F+

50Ω DC to 110 GHz 1.0 mm-Female to 1.0 mm-Female

### KEY FEATURES

- Ultra-wideband, DC to 110 GHz
- Low Insertion Loss, 0.27 dB Typ.
- Straight Body
- Excellent VSWR, 1.07:1 Typ.



Generic photo used for illustration purposes only

### PRODUCT OVERVIEW

Mini-Circuits' 10F-10F+ is a coaxial 1.0mm Female to 1.0mm Female adapter supporting a wide range of applications from DC to 110 GHz. This model provides excellent VSWR and low insertion loss versus frequency. The 10F-10F+ features passivated stainless-steel construction and measures only 0.5" in length.

### ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Condition (GHz)	Min.	Typ.	Max.	Units
Frequency Range		DC		110	GHz
Insertion Loss	0.01-30	—	0.12	0.68	dB
	30-60	—	0.22	0.68	
	60-90	—	0.32	0.68	
	90-110	—	0.41	0.68	
VSWR	0.01-30	—	1.03	1.25	:1
	30-60	—	1.05	1.25	
	60-90	—	1.07	1.25	
	90-110	—	1.12	1.40	

Absolute Maximum Ratings are on page 3.



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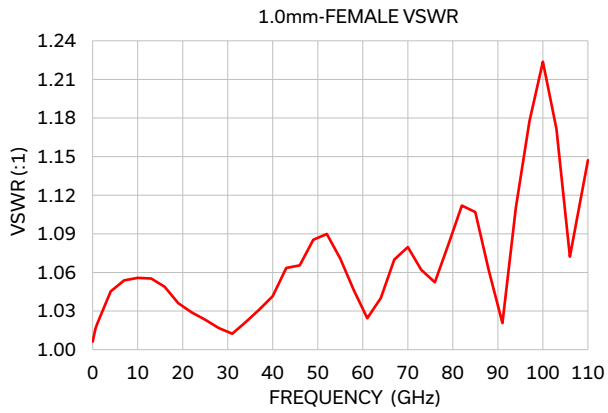
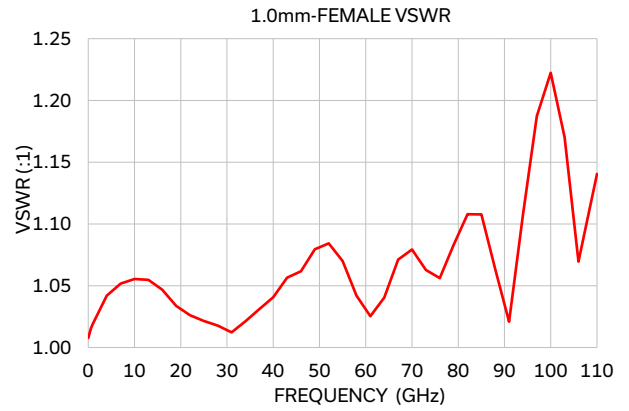
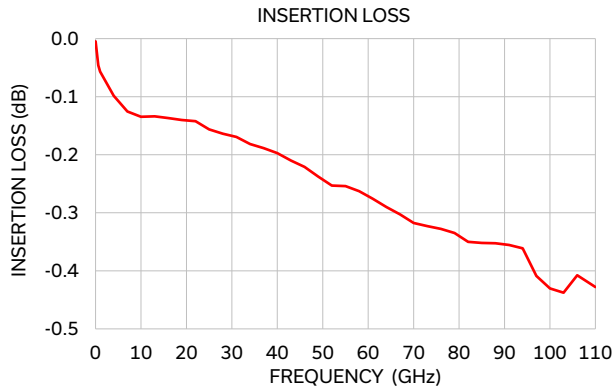
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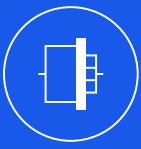
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## TYPICAL PERFORMANCE GRAPHS





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## 10F-10F+

50Ω DC to 110 GHz 1.0 mm-Female to 1.0 mm-Female

### ABSOLUTE MAXIMUM RATINGS<sup>1</sup>

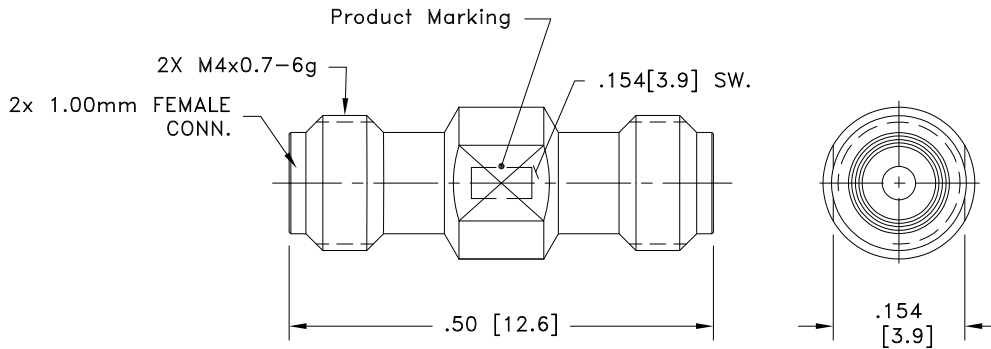
Parameter	Ratings
Operating Case Temperature	+10 °C to +40 °C
Storage Temperature	+10 °C to +40 °C

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

### CONNECTOR SPECIFICATIONS

Description	Connector 1	Connector 2
Connector Type	1.0mm Female	1.0mm Female
Orientation	Straight	Straight

### CASE STYLE DRAWING



Weight: 0.8 grams

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

### PRODUCT MARKING\*: 10F-10F+

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

ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD

[CLICK HERE](#)

<b>Performance</b>	Data Graphs S-Parameter (S2P Files) Data Set (.zip file)
<b>Case Style</b>	DJ3474
<b>RoHs Status</b>	Compliant
<b>Environmental Ratings</b>	ENV127T1

#### NOTES

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- 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)

