



Adapter

135FR-185M+

50Ω DC to 67 GHz Right-Angle 1.35 mm-Female to 1.85 mm-Male

KEY FEATURES

- Ultra-Wideband, DC to 67 GHz
- Low Insertion Loss, 0.29 dB Typ.
- Excellent VSWR, 1.10:1 Typ.
- Right-Angle Body



Generic photo used for illustration purposes only

PRODUCT OVERVIEW

Mini-Circuits' 135FR-185M+ is a coaxial 1.35 mm-Female Right-Angle to 1.85 mm-Male adapter supporting a wide range of applications from DC to 67 GHz. This model provides excellent VSWR and low insertion loss versus frequency. The 135FR-185M+ features passivated stainless-steel construction and measures only 0.657" in length.

ELECTRICAL SPECIFICATIONS¹ AT +25°C

Parameter	Frequency (GHz)	Min.	Typ.	Max.	Units
Frequency Range	-	DC	-	67	GHz
Insertion Loss	DC-15	-	0.12	0.73	dB
	15-45	-	0.27	0.73	
	45-67	-	0.43	0.73	
VSWR	DC-15	-	1.05	1.40	:1
	15-45	-	1.13	1.45	
	45-67	-	1.11	1.45	

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

ABSOLUTE MAXIMUM RATINGS²

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

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



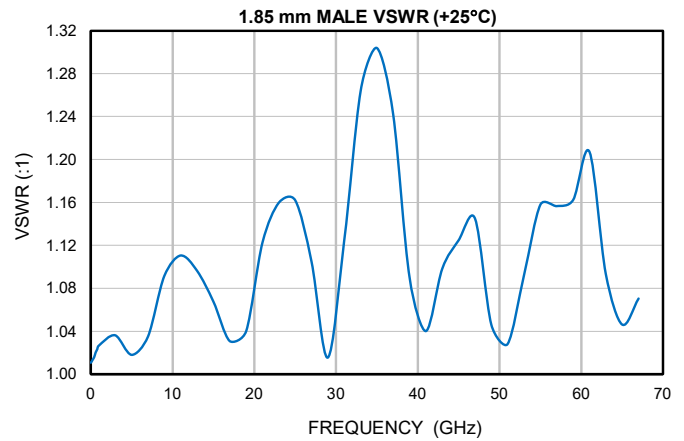
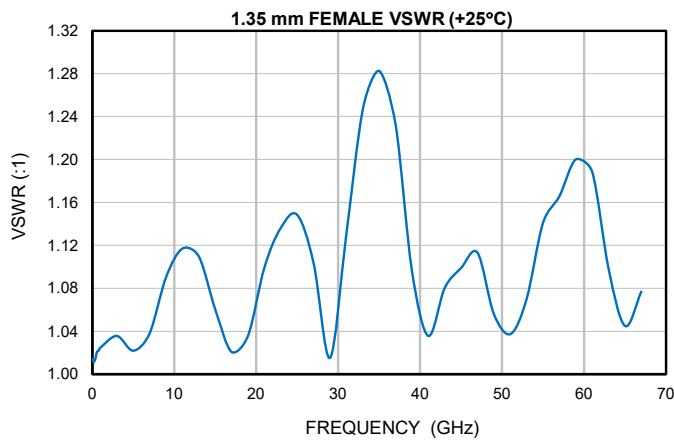
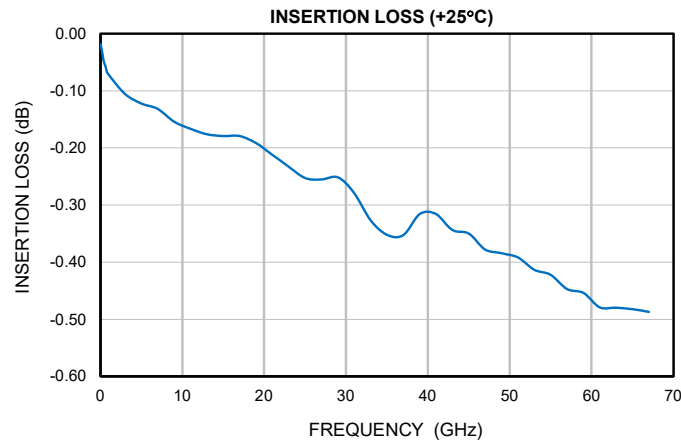
COAXIAL

Adapter

135FR-185M+

50 Ω DC to 67 GHz Right-Angle 1.35 mm-Female to 1.85 mm-Male

TYPICAL PERFORMANCE GRAPHS





Mini-Circuits

COAXIAL

Adapter

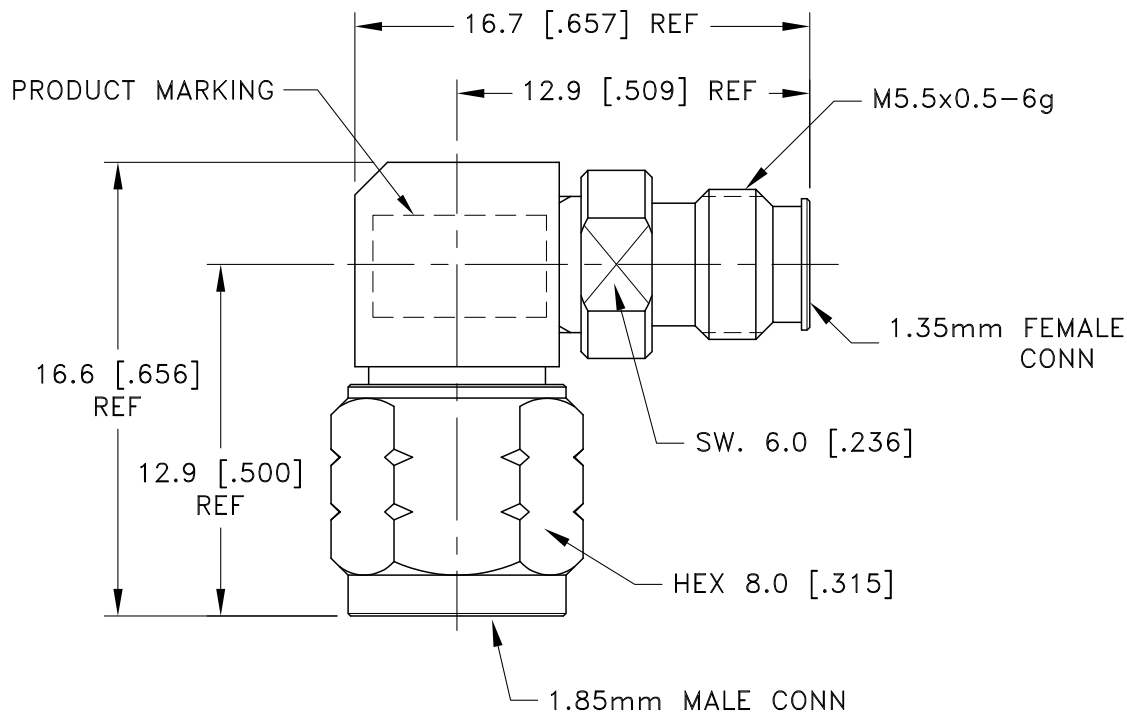
135FR-185M+

50Ω DC to 67 GHz Right-Angle 1.35 mm-Female to 1.85 mm-Male

CONNECTOR SPECIFICATIONS

Description	Connector 1	Connector 2
Connector Type	1.35 mm-Female	1.85 mm-Male
Orientation	Right-Angle	Straight

CASE STYLE DRAWING



Weight: 7.5 grams

Dimensions are in mm [inches]. Tolerances: 1 Pl.± 0.20 mm

PRODUCT MARKING*: 135FR-185M+

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





Mini-Circuits

COAXIAL

Adapter

135FR-185M+

50Ω DC to 67 GHz Right-Angle 1.35 mm-Female to 1.85 mm-Male

ADDITIONAL DETAILED INFORMATION IS AVAILABLE ON OUR DASHBOARD

[CLICK HERE](#)

Performance Data & Graphs	Data
	Graphs
	S-Parameter (S2P Files) Data Set (.zip file)
Case Style	DJ3750-3
RoHS Status	Compliant
Environmental Ratings	ENV152

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

