



KEY FEATURES

- Wideband, DC to 67 GHz
- Low Insertion Loss, 0.16 dB Typ.
- Excellent VSWR, 1.05:1 Typ.
- Straight Body



Generic photo used for illustration purposes only

PRODUCT OVERVIEW

Mini-Circuits' 135F-185M+ is a coaxial 1.35 mm Female 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 135F-185M+ features passivated stainless-steel construction and measures only 0.78" in length.

ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Frequency (GHz)	Min.	Typ.	Max.	Units
Frequency Range		DC		67	GHz
Insertion Loss	0.01-15	-	0.09	0.68	dB
	15-45	-	0.17	0.68	
	45-67	-	0.23	0.68	
VSWR	0.01-15	-	1.03	1.25	:1
	15-45	-	1.05	1.25	
	45-67	-	1.07	1.25	

ABSOLUTE MAXIMUM RATINGS¹

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

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



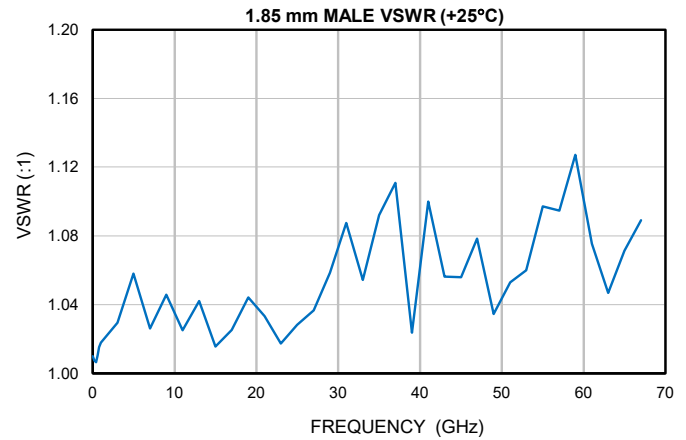
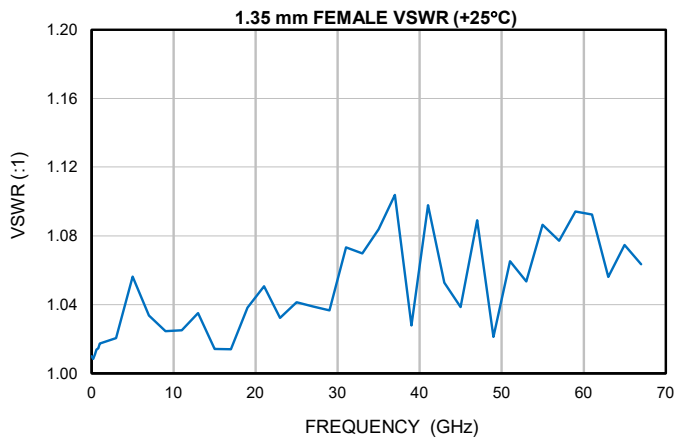
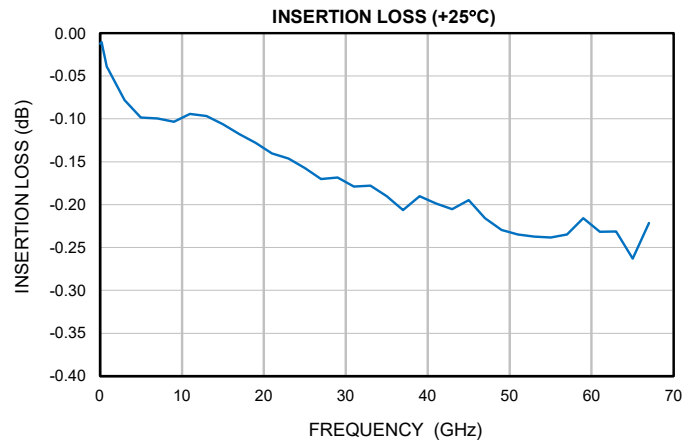
COAXIAL

Adapter

135F-185M+

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

TYPICAL PERFORMANCE GRAPHS





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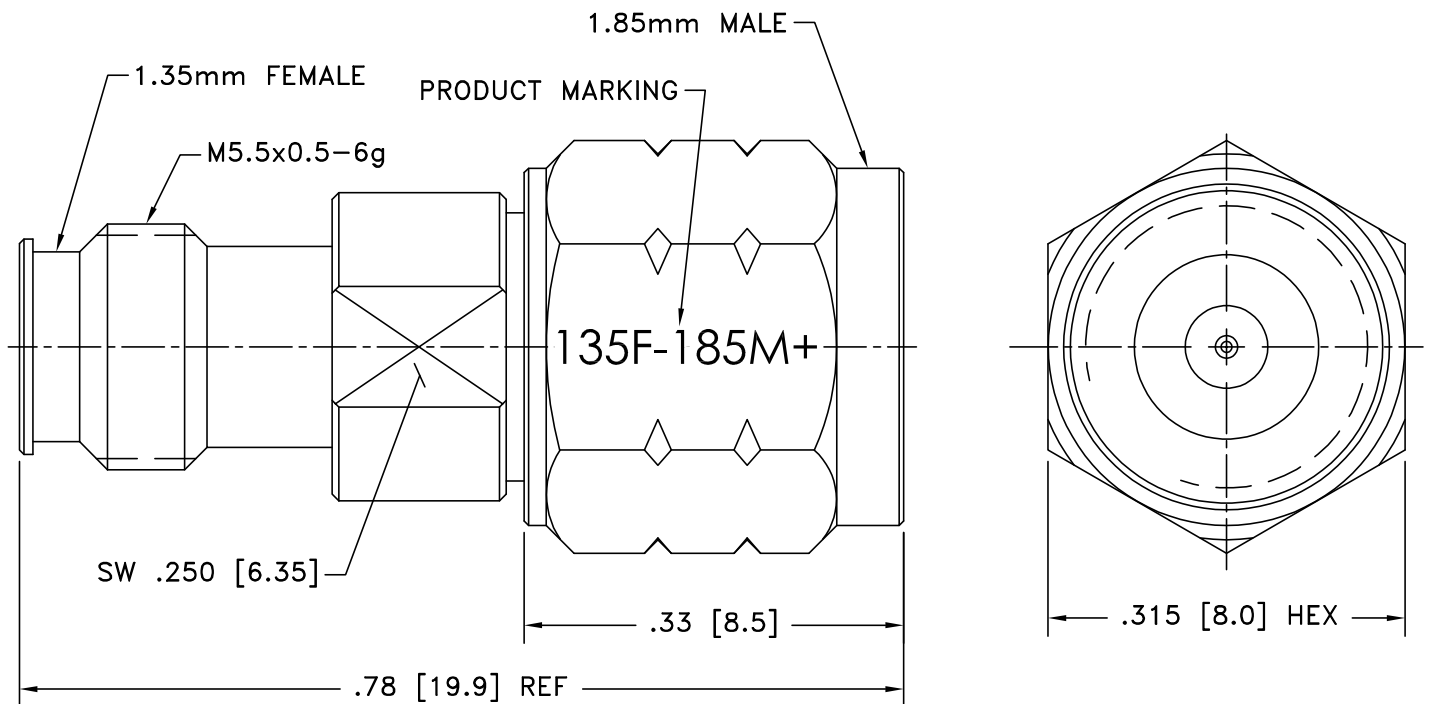
135F-185M+

50Ω DC to 67 GHz 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	Straight	Straight

CASE STYLE DRAWING



Weight: 4.0 grams

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

PRODUCT MARKING*: 135F-185M+

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





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ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD

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Performance Data & Graphs	Data
	Graphs
	S-Parameter (S2P Files) Data Set (.zip file)
Case Style	DJ3602-8
RoHS Status	Compliant
Environmental Ratings	ENV89

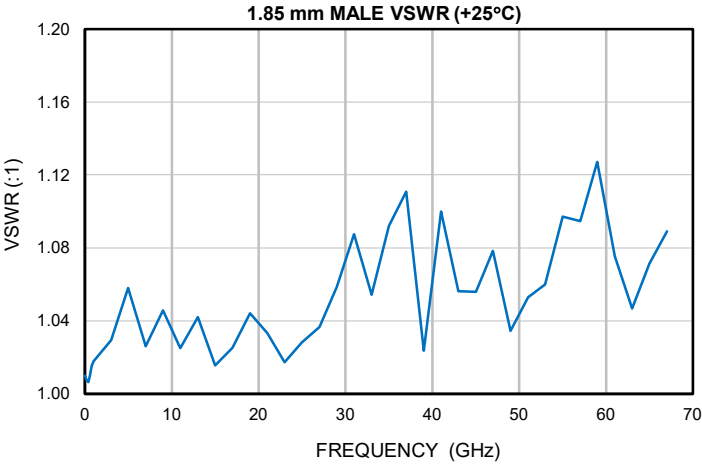
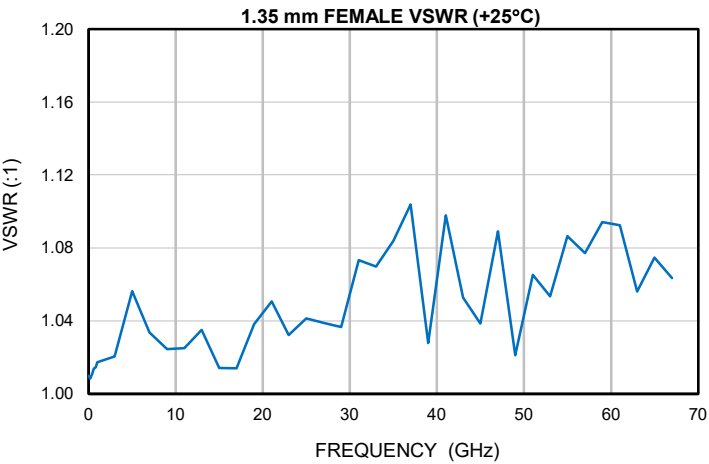
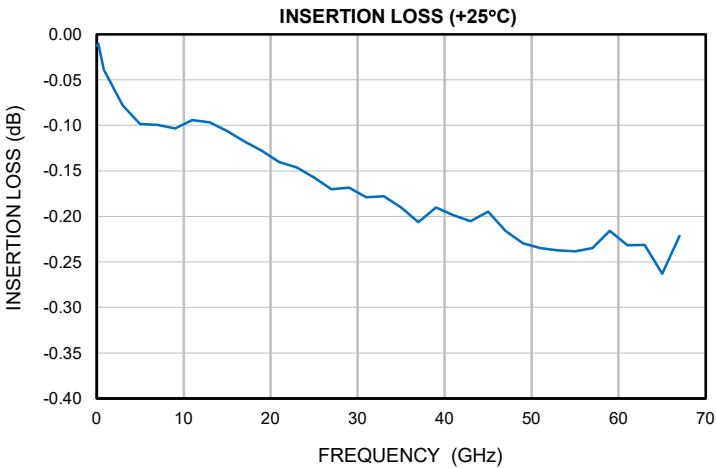
- NOTES
- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based 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

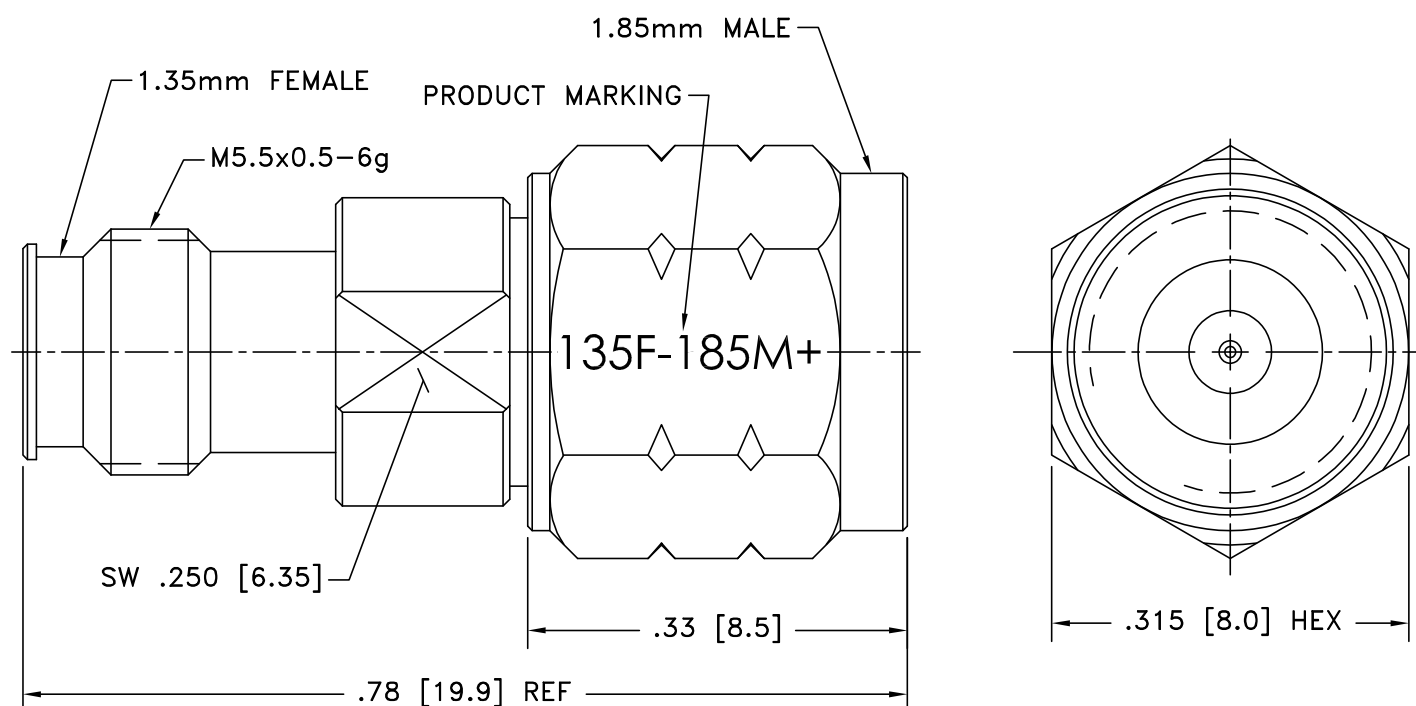


Adaptor 1.35mm-Female to 1.85mm-Male**135F-185M+***Typical Performance Data (+25°C)*

FREQ.	INSERTION LOSS	1.35mm-FEMALE VSWR	1.85mm-MALE VSWR
(GHz)	(dB)	(:1)	(:1)
0.01	0.01	1.01	1.01
0.2	0.01	1.01	1.01
0.4	0.02	1.01	1.01
0.6	0.03	1.01	1.01
0.8	0.04	1.01	1.02
1.0	0.04	1.02	1.02
3.0	0.08	1.02	1.03
5.0	0.10	1.06	1.06
7.0	0.10	1.03	1.03
9.0	0.10	1.02	1.05
11.0	0.09	1.03	1.03
13.0	0.10	1.04	1.04
15.0	0.11	1.01	1.02
17.0	0.12	1.01	1.03
19.0	0.13	1.04	1.04
21.0	0.14	1.05	1.03
23.0	0.15	1.03	1.02
25.0	0.16	1.04	1.03
27.0	0.17	1.04	1.04
29.0	0.17	1.04	1.06
31.0	0.18	1.07	1.09
33.0	0.18	1.07	1.05
35.0	0.19	1.08	1.09
37.0	0.21	1.10	1.11
39.0	0.19	1.03	1.02
41.0	0.20	1.10	1.10
43.0	0.21	1.05	1.06
45.0	0.19	1.04	1.06
47.0	0.22	1.09	1.08
49.0	0.23	1.02	1.03
51.0	0.23	1.07	1.05
53.0	0.24	1.05	1.06
55.0	0.24	1.09	1.10
57.0	0.23	1.08	1.09
59.0	0.22	1.09	1.13
61.0	0.23	1.09	1.08
63.0	0.23	1.06	1.05
65.0	0.26	1.07	1.07
67.0	0.22	1.06	1.09

Typical Performance Curves





Weight: 4.0 grams

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

Notes:

1. Case material: Stainless Steel.
2. Finish: Passivation.
3. Primary dimensions are in inches [millimeters]. Inch equivalents are calculated and subject to roundoff errors.



ISO 9001 ISO 14001 CERTIFIED

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The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS

