



COAXIAL

# Adapter

## 35F-35M50+

50Ω DC to 34 GHz 3.5mm-F to 3.5mm-M

### FEATURES

- Flat response
- Excellent VSWR, 1.07 typ. up to 18 GHz and 1.1 typ. up to 34 GHz
- Low cost adapters, available from stock
- Rugged stainless steel body, passivated
- 3.5 mm connector mates with SMA, K and 2.92 mm connectors



Generic photo used for illustration purposes only

### APPLICATIONS

- Connection saver
- Cable extender

Model No.	35F-35M50+
Case Style	DJ1734
Connectors	3.5 mm-F to 3.5 mm-M

#### +RoHS Compliant

The +Suffix identifies RoHS Compliance. See our website for methodologies and qualifications

### ELECTRICAL SPECIFICATIONS AT 25°C

Parameter	Condition (GHz)	Min.	Typ.	Max.	Units
Frequency Range	-	DC	—	34	GHz
Insertion Loss	DC-34	—	0.12	—	dB
VSWR	DC-18	—	1.07	1.25	:1
	DC-26.5	—	1.10	1.25	
	DC-34	—	1.10	1.25	

### ABSOLUTE MAXIMUM RATINGS

Parameter	Ratings
Operating Temperature	-55°C to +100°C
Storage Temperature	-55°C to +100°C

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



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## 35F-35M50+

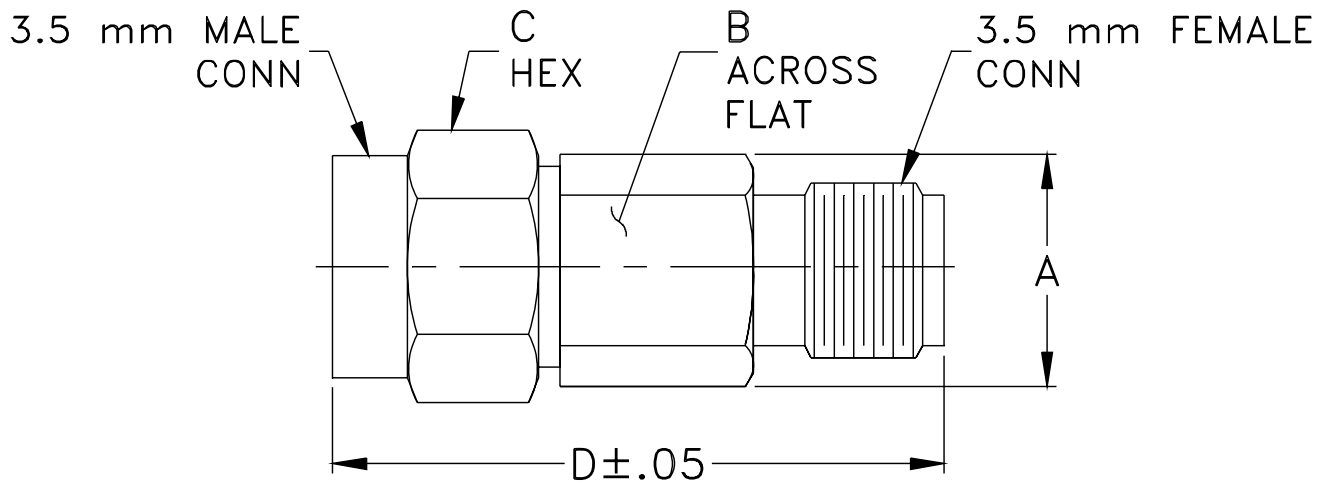
Mini-Circuits

50Ω DC to 34 GHz 3.5mm-F to 3.5mm-M

### COAXIAL CONNECTIONS

Connector 1	3.5 mm-F
Connector 2	3.5 mm-M

### OUTLINE DRAWING



### OUTLINE DIMENSIONS (Inches/mm)

A	B	C	D	E	wt
.307	.274	.312	.815	--	grams
7.80	6.96	7.92	20.70	--	<b>3.0</b>



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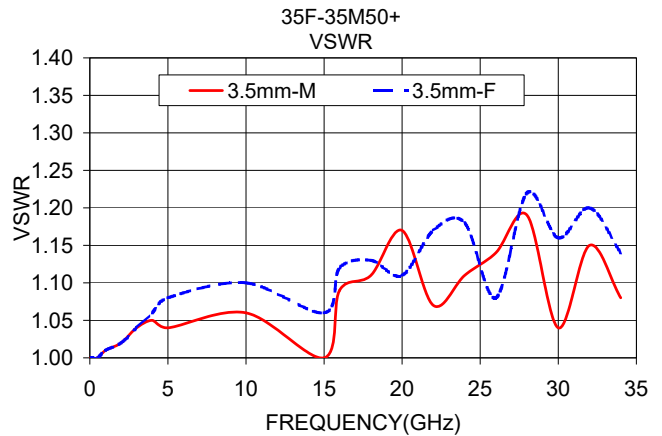
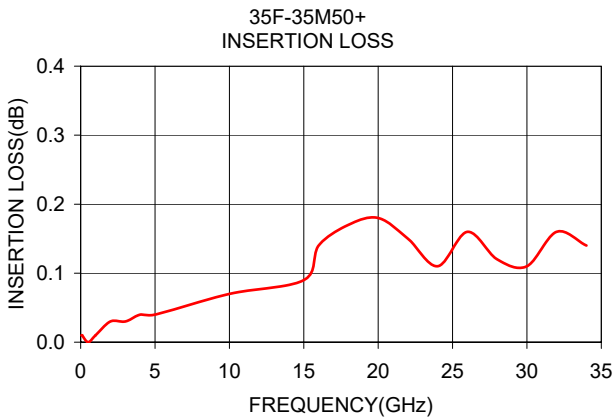
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### TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (GHz)	Insertion Loss (dB)	VSWR (:1)	
		3.5 mm-Female	3.5 mm-Male
0.05	0.01	1.00	1.00
0.1	0.01	1.00	1.00
0.5	0.00	1.00	1.00
1	0.01	1.01	1.01
2	0.03	1.02	1.02
3	0.03	1.04	1.04
4	0.04	1.06	1.05
5	0.04	1.08	1.04
10	0.07	1.10	1.06
15	0.09	1.06	1.00
16	0.14	1.12	1.09
18	0.17	1.13	1.11
20	0.18	1.11	1.17
22	0.15	1.17	1.07
24	0.11	1.18	1.11
26	0.16	1.08	1.14
28	0.12	1.22	1.19
30	0.11	1.16	1.04
32	0.16	1.20	1.15
34	0.14	1.14	1.08



#### 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)

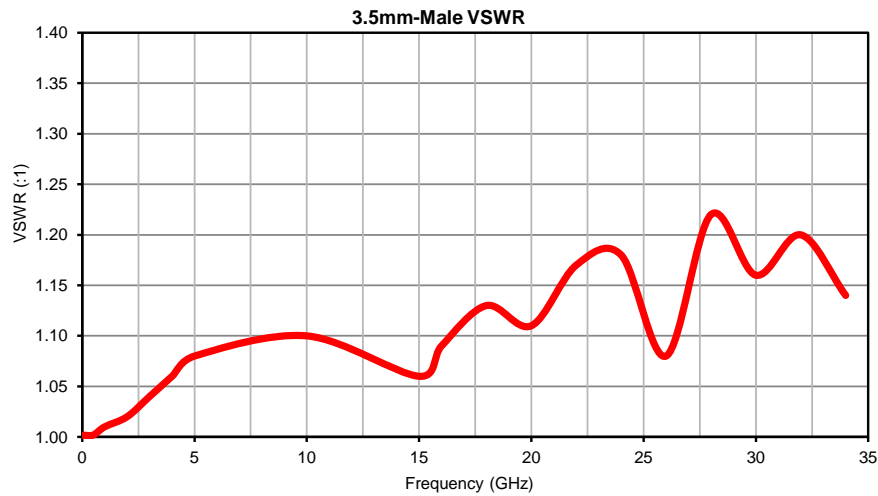
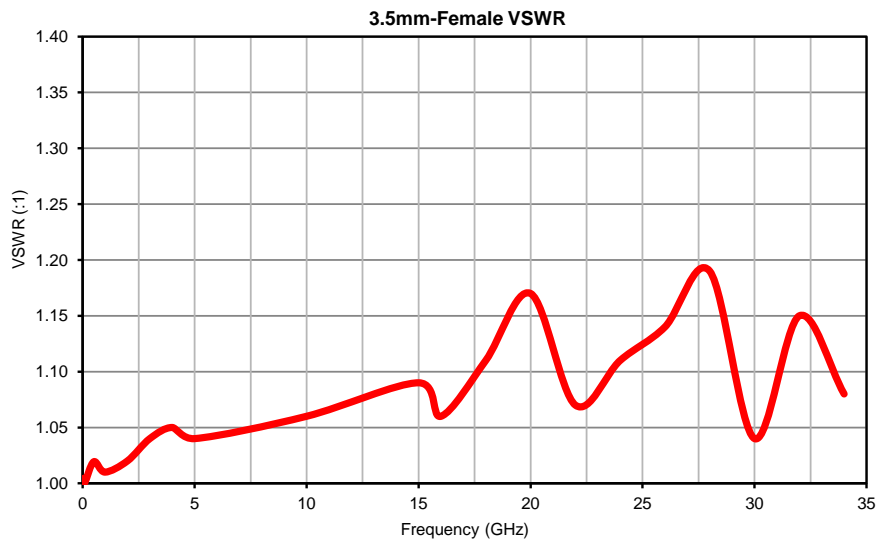
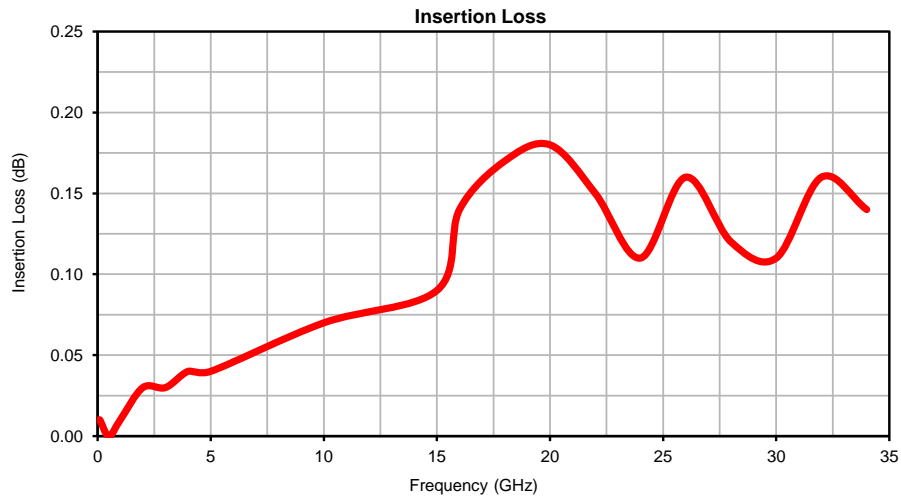


# Adapter, 3.5mm Female to 3.5mm Male 35F-35M50+

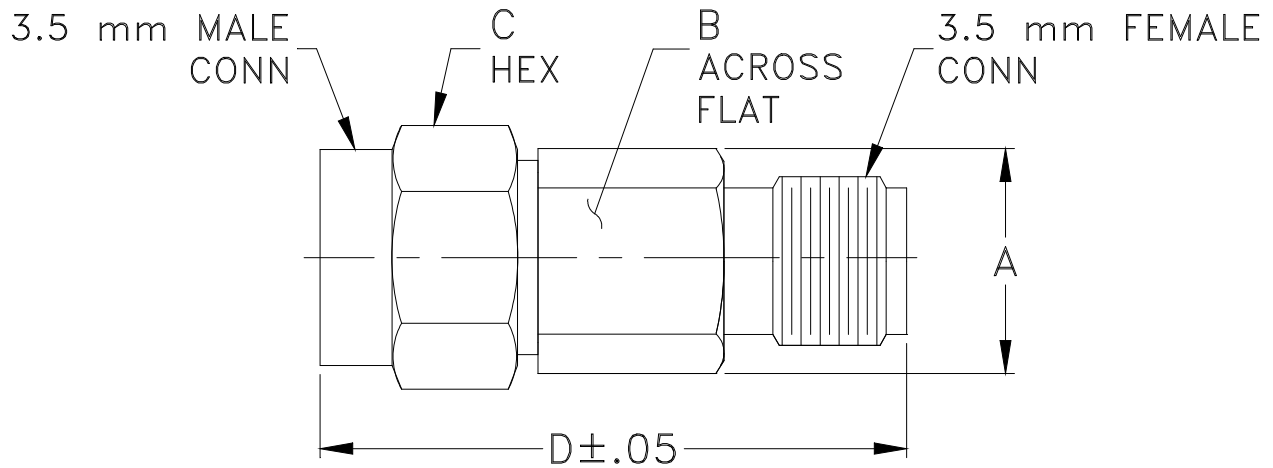
## Typical Performance Data

FREQUENCY (GHz)	INSERTION LOSS (dB)	3.5mm-FEMALE VSWR (:1)	3.5mm-MALE VSWR (:1)
0.05	0.010	1.00	1.00
0.10	0.010	1.00	1.00
0.50	0.000	1.02	1.00
1.00	0.010	1.01	1.01
2.00	0.030	1.02	1.02
3.00	0.030	1.04	1.04
4.00	0.040	1.05	1.06
5.00	0.040	1.04	1.08
10.0	0.070	1.06	1.10
15.0	0.090	1.09	1.06
16.0	0.140	1.06	1.09
18.0	0.170	1.11	1.13
20.0	0.180	1.17	1.11
22.0	0.150	1.07	1.17
24.0	0.110	1.11	1.18
26.0	0.160	1.14	1.08
28.0	0.120	1.19	1.22
30.0	0.110	1.04	1.16
32.0	0.160	1.15	1.20
34.0	0.140	1.08	1.14

## Typical Performance Curves



### Outline Dimensions



CASE#	A	B	C	D	E	WT. GRAM
DJ1734	.307 (7.80)	.274 (6.95)	.312 (7.93)	.815 (20.70)	-- --	3.0

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

#### Note:

1. Case material: Stainless steel.
2. Finish: Passivation.



All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 100° C or -55° to 85° C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Thermal Shock	-55° to 100°C, 100 cycles	MIL-STD-202, Method 107, condition B -3, except over -55° to 100°C
Connector Durability	500 mating/unmating cycles	MIL-PRF-39012E, PARAGRAPH 4.6.12
Drop Test	3' height, 3 times	