

Coaxial

# Adapter 3.5 mm-M to 3.5 mm-M

**35M-35M50+**

50Ω DC to 34 GHz

## The Big Deal

- Ultra-wideband, DC-34 GHz
- Flat response
- Low insertion loss, 0.10 dB
- Excellent VSWR, 1.03:1



CASE STYLE: DJ1863

## Product Overview

Mini-Circuits' 35M-35M50+ is a coaxial 3.5mm-M to 3.5mm-M adapter supporting a wide range of applications from DC to 34 GHz. This model provides excellent VSWR, low insertion loss, and flat response versus frequency. The 35M-35M50+ features rugged, passivated stainless steel construction and measures only 0.86" (l) x 0.36" (dia.).

## Key Features

Feature	Advantages
Wideband, DC to 34 GHz	Wide frequency range provides application flexibility and makes this model ideal for broad-band and multi-band use.
Excellent VSWR, 1.03:1	Provides good matching for 50Ω systems and minimizes signal reflections across wide frequency range.
Low insertion loss, 0.10 dB	Provides excellent signal power transmission from input to output.
Rugged, passivated stainless steel construction.	Stands up to wear and tear in demanding environments and provides excellent reliability.
Very wide operating temperature range, -55 to +100°C	Withstands extreme operating conditions and is suitable for use near high power components where heat rise is common.

### 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.  
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## 35M-35M50+

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### Maximum 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.

### Features

- flat response
- excellent VSWR, 1.02 typ. up to 18 GHz and 1.03 typ. up to 34 GHz
- low cost adapters, available from stock
- rugged stainless steel body, passivated
- qualified to 500 mating cycles
- 3.5mm connector mates with SMA,K,2.92mm connectors

### Applications

- interconnection of RF cable and equipment

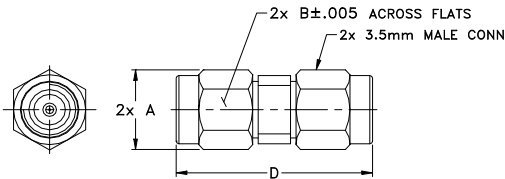


CASE STYLE: DJ1863

Connectors	Model
3.5mm-Male	35M-35M50+

**+RoHS Compliant**  
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

### Outline Drawing



### Outline Dimensions (inch/mm)

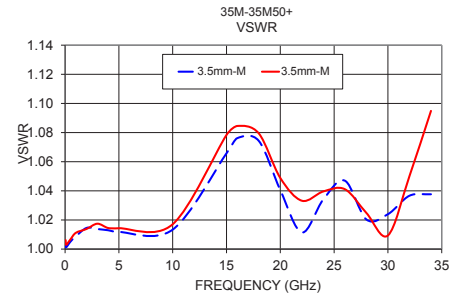
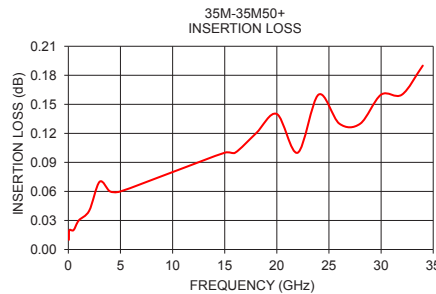
A	B	C	D	E	wt
0.36	0.312	--	0.86	--	grams
9.14	7.93	--	21.80	--	5.3

### Electrical Specifications at 25°C

Parameter	Condition (GHz)	Min.	Typ.	Max.	Units
Frequency Range		DC		34	GHz
Insertion Loss	DC - 34	—	0.10	—	dB
	DC - 18	—	1.02	1.25	
VSWR	DC - 26	—	1.02	1.25	:1
	DC - 34	—	1.03	1.25	

### Typical Performance Data

Frequency (GHz)	Insertion Loss (dB)	VSWR (:1)	
		3.5 mm-M	3.5 mm-M
0.05	0.01	1.00	1.01
0.10	0.02	1.00	1.00
0.50	0.02	1.01	1.01
1.00	0.03	1.01	1.01
2.00	0.04	1.01	1.01
3.00	0.07	1.01	1.02
4.00	0.06	1.01	1.01
5.00	0.06	1.01	1.01
10.00	0.08	1.01	1.02
15.00	0.10	1.07	1.08
16.00	0.10	1.08	1.08
18.00	0.12	1.07	1.08
20.00	0.14	1.04	1.05
22.00	0.10	1.01	1.03
24.00	0.16	1.03	1.04
26.00	0.13	1.05	1.04
28.00	0.13	1.02	1.02
30.00	0.16	1.02	1.01
32.00	0.16	1.04	1.05
34.00	0.19	1.04	1.09



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