

COAXIAL

Adapter

24MR-35F+

50Ω DC to 33 GHz Right-Angle 2.4 mm Male to 3.5 mm Female

KEY FEATURES

- Ultra-Wideband, DC to 33 GHz
- Low Insertion Loss, 0.11 dB Typ.
- Excellent VSWR, 1.11:1 Typ.
- Right-Angle Body



Generic photo used for illustration purposes only

PRODUCT OVERVIEW

Mini-Circuits' 24FR-KF+ is a coaxial 2.4 mm Right-Angle Male to 3.5 mm Female adapter supporting a wide range of applications from DC to 33 GHz. This model provides excellent VSWR and low insertion loss versus frequency. The 24MR-35F+ features passivated stainless-steel construction and measures only 0.71" in length.

ELECTRICAL SPECIFICATIONS¹ AT +25°C

Parameter	Frequency (GHz)	Min.	Typ.	Max.	Units
Frequency Range	-	DC	-	33	GHz
Insertion Loss	0.01-33	-	0.11	0.44	dB
VSWR	0.01-33	-	1.11	1.35	:1

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

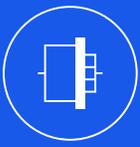
ABSOLUTE MAXIMUM RATINGS²

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.

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24MR-35F+
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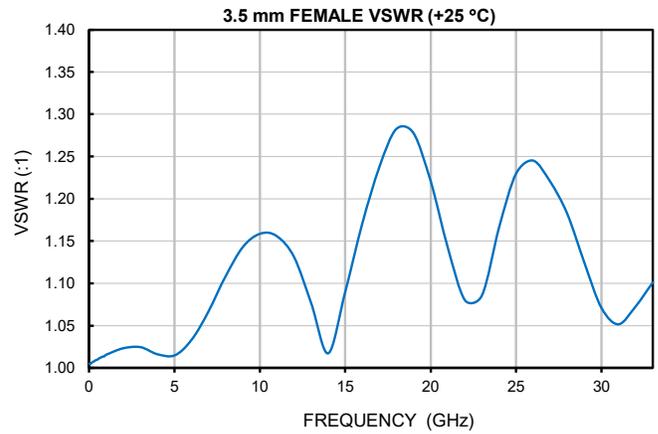
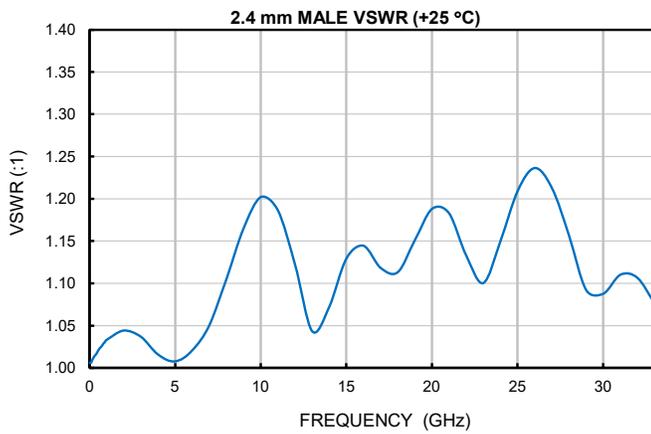
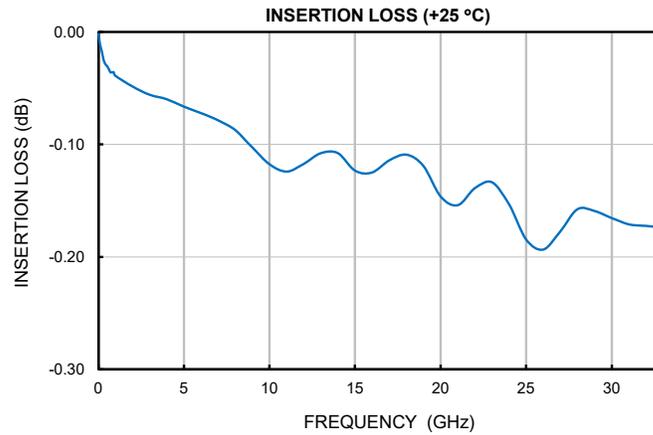
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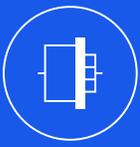
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TYPICAL PERFORMANCE GRAPHS





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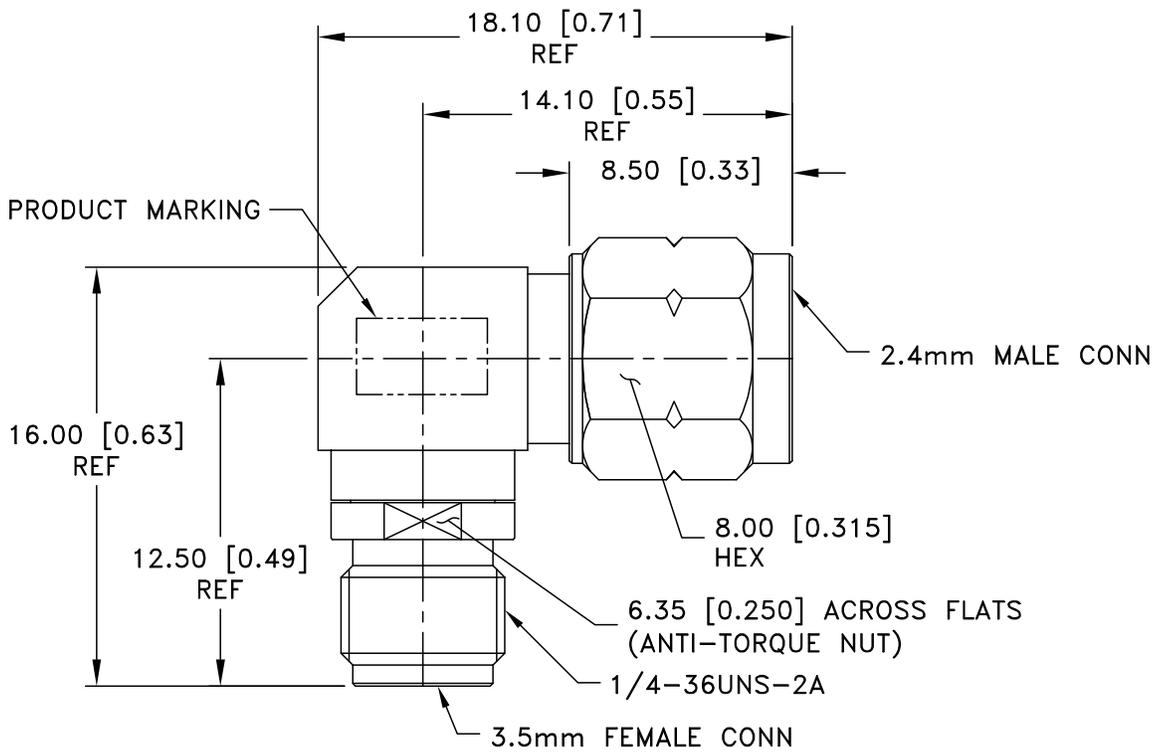
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CONNECTOR SPECIFICATIONS

Description	Connector 1	Connector 2
Connector Type	2.4 mm-Male	3.5 mm-Female
Orientation	Right-Angle	Straight

CASE STYLE DRAWING

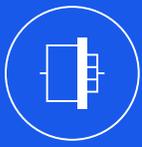


Weight: 7.5 grams

Dimensions are in mm [inches]. Tolerances: 2 Pl.±0.40 mm

PRODUCT MARKING*: 24MR-35F+

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



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Mini-Circuits

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	DJ3803-3
RoHS Status	Compliant
Environmental Ratings	ENV152

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



Adapter 2.4mm-Male to 3.5mm-Female

24MR-35F+

Typical Performance Data

FREQ.	INSERTION LOSS	2.4mm-MALE VSWR	3.5mm-FEMALE VSWR
(GHz)	(dB)	(:1)	(:1)
0.01	0.00	1.01	1.01
0.10	0.01	1.01	1.00
0.20	0.02	1.01	1.01
0.30	0.02	1.01	1.01
0.40	0.03	1.02	1.01
0.50	0.03	1.02	1.01
0.60	0.03	1.02	1.01
0.70	0.04	1.03	1.01
0.80	0.04	1.03	1.01
0.90	0.04	1.03	1.01
1.00	0.04	1.03	1.02
2.00	0.05	1.04	1.02
3.00	0.06	1.04	1.02
4.00	0.06	1.02	1.02
5.00	0.07	1.01	1.01
6.00	0.07	1.02	1.03
7.00	0.08	1.05	1.07
8.00	0.09	1.11	1.11
9.00	0.10	1.16	1.14
10.00	0.12	1.20	1.16
11.00	0.12	1.19	1.16
12.00	0.12	1.12	1.13
13.00	0.11	1.04	1.08
14.00	0.11	1.07	1.02
15.00	0.12	1.13	1.09
16.00	0.12	1.14	1.17
17.00	0.11	1.12	1.24
18.00	0.11	1.11	1.28
19.00	0.12	1.15	1.28
20.00	0.15	1.19	1.22
21.00	0.15	1.18	1.14
22.00	0.14	1.13	1.08
23.00	0.13	1.10	1.09
24.00	0.15	1.15	1.17
25.00	0.18	1.21	1.23
26.00	0.19	1.24	1.25
27.00	0.18	1.21	1.22
28.00	0.16	1.16	1.18
29.00	0.16	1.09	1.12
30.00	0.17	1.09	1.07
31.00	0.17	1.11	1.05
32.00	0.17	1.11	1.07
33.00	0.17	1.08	1.10



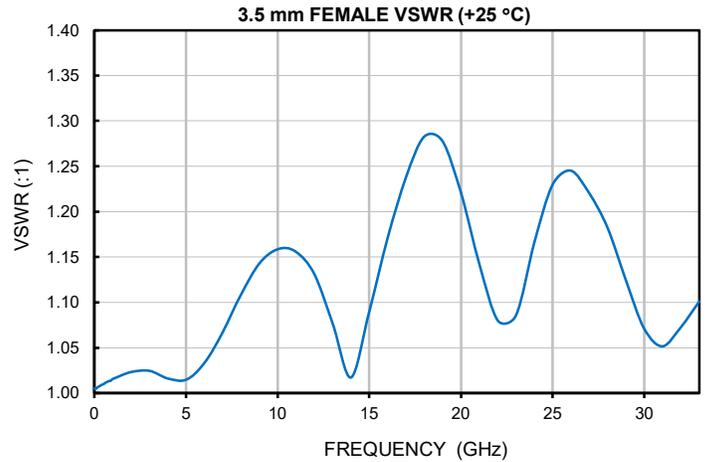
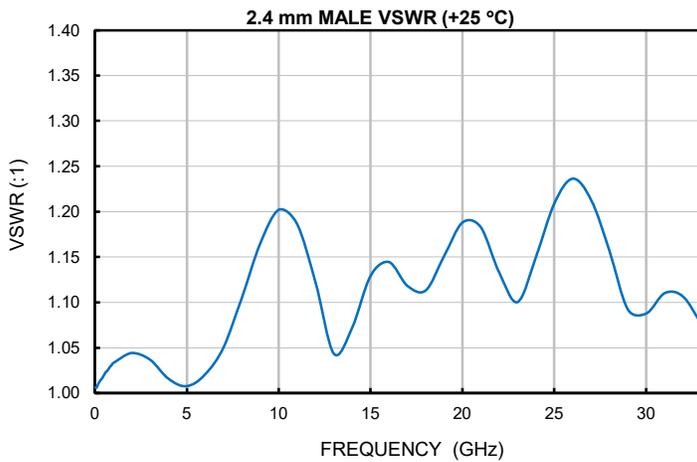
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 • Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site
 The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

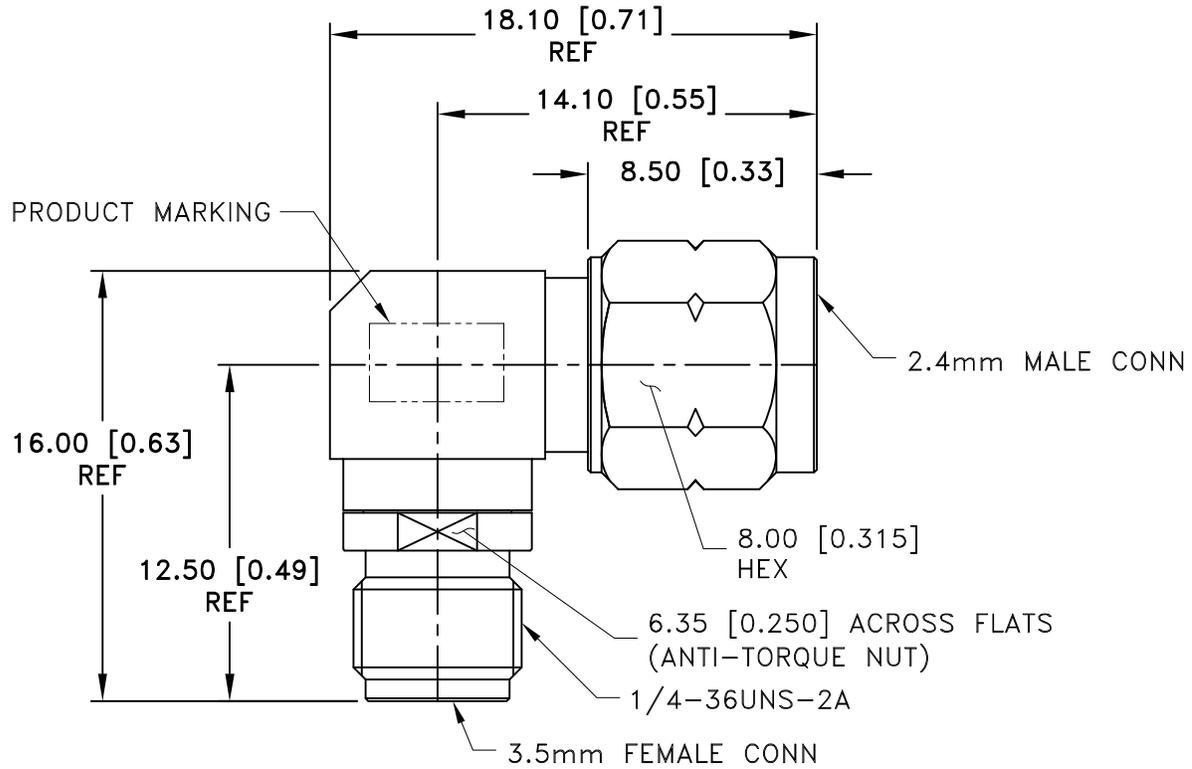


IF/RF MICROWAVE COMPONENTS

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 24MR-35F+
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Typical Performance Curves





Weight: 7.5 grams

Dimensions are in mm [inches]. Tolerances: 2 Pl.± 0.40 mm

Notes:

Case material: Stainless steel.
Case Finish: Passivated.

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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



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	-45° to +125° C	Individual Model Data Sheet
Storage Temperature	-45° to +125° C	Individual Model Data Sheet
Thermal Shock	-55° to +125° C, 5cycles, 15 min dwell time	MIL-STD-202, Method 107, Condition B except -55° C instead of -65° C
Connector Durability	500 mating/unmating cycles	MIL-PRF-39012E, PARAGRAPH 4.6.12