

Waveguide To Coaxial Adapters — End Launch

WR430–WR22 to 2.4mm, 2.92mm, 3.5mm, SMA, 7mm, and Type N

General Information

Maury produces a comprehensive lines of waveguide to coaxial adapters. Our adapters set the standards for high precision laboratory test and measurement applications, and for systems applications where accuracy and durability are important. These adapters feature precision index holes and lapped flanges to facilitate proper mating; ensuring that your system will deliver the critical performance demanded by the most exacting measurement tasks.

Maury waveguide to coaxial adapters include right angle and end launch configurations. They are available in all common rectangular waveguide sizes, covering frequencies from DC to 50 GHz. They adapt to 2.4mm, 2.92mm, 3.5mm, 7mm, type N and SMA coaxial connector types.

If you require an adapter not listed in this catalog, please contact our Sales Department or your local Maury representative.

Special adapters in large waveguide sizes such as WR975 (0.76 to 1.15 GHz), in uncommon sizes (e.g.: WR102), and in half-height waveguide can also be provided. We can also provide units with less common connectors such as SC, 14mm (GR900) and EIA rigid line (7/8, 1-5/8, etc.). Other special adapters have been built for space flight environments.

Description

Maury end launch adapters feature low VSWR and low insertion loss. Except where noted, flanges are in accordance with the listing on page 128. Most of the adapters shown incorporate precision index holes in the flange for precise mating alignment and connection repeatability. Please contact us for detailed flange interface information.

Specifications

Frequency Range 1.7 – 40.0 GHz
(in waveguide bands)

Maximum VSWR 1.25 (<1.15 typical) to 18.0 GHz
1.30 (< 1.20 typical) to 50.0 GHz

Flanges Cover Type, see page 128

VSWR Options

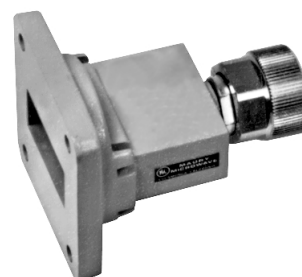
Improved VSWR is provided on adapters with a numeric suffix to the model number (e.g., X230A1).

Model Suffix	Maximum VSWR
2	1.05
8	1.07
1	1.10
6	1.15
3	1.20
7	1.25

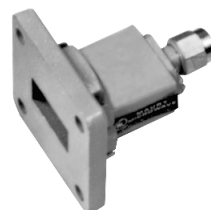
Many adapters can be provided with improved VSWR over their full or partial waveguide bands. Our Sales Department will gladly assist you with this and other application specific requirements. Information on specific models such as loss, power handling and dimensions will be provided on request.



Type N
E221A1



7mm
X229A2



3.5mm
K230B6



2.4mm
U237A1

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Available Models

End Launch EIA WR to 2.4mm, 2.92mm, and 3.5mm Connectors

FREQUENCY RANGE (GHz)	EIA WR NUMBER	MODEL (BY COAXIAL CONNECTOR TYPE)					
		2.4mm female	2.4mm male	2.92mm female	2.92mm male	3.5mm female	3.5mm male
1.70 – 2.60	430	—	—	—	—	—	—
2.60 – 3.95	284	—	—	—	—	—	—
3.30 – 4.90	229	—	—	—	—	E230A1	E230B1
3.95 – 5.85	187	—	—	—	—	G230A1	G230B1
4.90 – 7.05	159	—	—	—	—	—	—
5.85 – 8.20	137	—	—	—	—	C230A1	C230B1
7.05 – 10.00	112	—	—	—	—	H230A1	H230B1
8.20 – 12.40	90	—	—	—	—	X230A1	X230B1
10.00 – 15.00	75	—	—	—	—	M230A1	M230B1
12.40 – 18.00	62	—	—	—	—	P230A2	P230B2
15.00 – 22.00	51	—	—	—	—	N230A3	N230B3
18.00 – 26.50	42	K237A2	K237B2	K233A8	K233B8	K230A6	K230B6
22.00 – 33.00	34	Q237A2	Q237B2	—	—	—	—
26.50 – 40.00	28	U237A1	U237B1	U233A1	U233B1	U230A7 ¹	U230B7 ¹
33.00 – 50.00	22	J237A6	J237B6	—	—	—	—

End Launch EIA WR to SMA, 7mm, and Type N Connectors

FREQUENCY RANGE (GHz)	EIA WR NUMBER	MODEL (BY COAXIAL CONNECTOR TYPE)				
		SMA female ²	SMA male ²	7mm	Type N female	Type N male
1.70 – 2.60	430	—	—	R229A1	R221A	R221B
2.60 – 3.95	284	—	—	S229A1	S221A1	S221B1
3.30 – 4.90	229	—	—	E229A1	E221A1	E221B1
3.95 – 5.85	187	—	—	G229C1	G221A1	G221B1
4.90 – 7.05	159	—	—	F229C1	F221A1	F221B1
5.85 – 8.20	137	—	—	C229A1	C221A1	C221B1
7.05 – 10.00	112	—	—	H229A2	H221A	H221B
8.20 – 12.40	90	—	—	X229A2	X221A2	X221B2
10.00 – 15.00	75	—	—	M229A2	M221A2	M221B2
12.40 – 18.00	62	P223A	P223B	P229A2	P221A2	P221B2
15.00 – 22.00	51	—	—	—	—	—
22.00 – 33.00	34	—	—	—	—	—
18.00 – 26.50	42	—	—	—	—	—
26.50 – 40.00	28	—	—	—	—	—

¹ 3.5mm WR28 models are rated to 34 GHz. Use 2.92mm adapters, which are mating compatible, for full band coverage.

² Use 3.5mm adapters in bands not covered.