

Waveguide To Coaxial Adapters — Right Angle Launch

WR650–WR22 to 2.4mm, 2.92mm, 3.5mm, SMA, 7mm, Type N, and TNC

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 waveguide sizes, covering frequencies from DC to 50 GHz. They adapt to 2.4mm, 2.92mm, 3.5mm, 7mm, type N, TNC 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 right angle 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 consult the factory for detailed flange interface information.

Specifications

Frequency Range 1.12 – 40.0 GHz
(in waveguide bands)

Maximum VSWR. 1.25 (<1.15 typical)

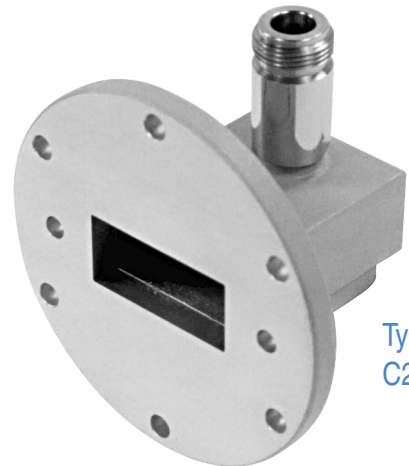
Flanges Cover Type, see page 128

VSWR Options

Improved VSWR is provided on adapters with a numeric suffix to the model number (e.g., X200A2).

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.



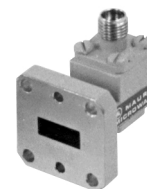
Type N
C213D2



7mm
X209D2



SMA
P211D



2.92mm
K210C1

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Available Models

Right Angle 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	—	—	—	—	R200A1	R200B1
2.20 – 3.30	340	—	—	—	—	—	—
2.60 – 3.95	284	—	—	—	—	S200A1	S200B1
3.30 – 4.90	229	—	—	—	—	E200A1	E200B1
3.95 – 5.85	187	—	—	—	—	G200A1	G200B1
4.90 – 7.05	159	—	—	—	—	F200A1	F200B1
5.85 – 8.20	137	—	—	—	—	C200A1	C200B1
7.05 – 10.00	112	—	—	—	—	H200A1	H200B1
8.20 – 12.40	90	X236A1	X236B1	—	—	X200A2	X200B2
10.00 – 15.00	75	—	—	—	—	M200A2	M200B2
12.40 – 18.00	62	P236A1	P236B1	—	—	P200A2	P200B2
15.00 – 22.00	51	N236A1	N236B1	—	—	N200A2	N200B2
18.00 – 26.50	42	K236A1	K236B1	—	—	K200A1	K200B1
22.00 – 33.00	34	Q236A1	Q236B1	—	—	Q200A3	Q200B3
26.50 – 40.00	28	U236A6	U236B6	U210C6	U211C6	U200A1 ¹	U200B1 ¹
33.00 – 50.00	22	J236A3	J236B3	—	—	—	—

Right Angle Launch EIA WR to SMA, 7mm, Type N and TNC 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	TNC female	TNC male
1.12 – 1.70	650	—	—	L209A1	L213A1	L214A1	—	—
1.70 – 2.60	430	—	—	R209A2	R213A2	R214A2	—	—
2.20 – 3.30	340	—	—	D209A2	D213A1	D214A1	—	—
2.60 – 3.95	284	—	—	S209D2	S213D2	S214D2	—	—
3.30 – 4.90	229	—	—	E209A2	E213A2	E214A2	—	—
3.95 – 5.85	187	—	—	G209D2	G213D2	G214D2	—	—
4.90 – 7.05	159	—	—	F209A2	F213A2	F214A2	—	—
5.85 – 8.20	137	C210D	C211D	C209D2	C213D2	C214D2	—	—
7.05 – 10.00	112	H210D	H211D	H209D2	H213D2	H214D2	—	—
8.20 – 12.40	90	X210D	X211D	X209D2	X213D2	X214D2	—	—
10.00 – 15.00	75	M210D1	M211D1	M209D2	M213D2	M214D2	M215D1	M216D1
12.40 – 18.00	62	P210D	P211D	P209D2	P213D2	P214D2	—	—
15.00 – 22.00	51	N210D	N211D	—	—	—	—	—
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.