

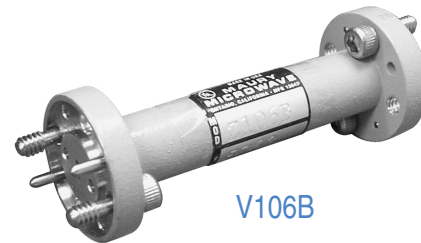
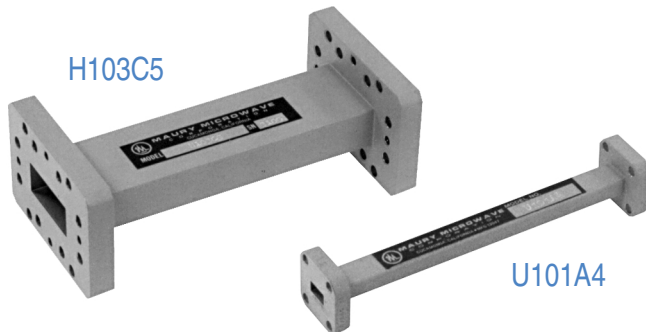
Waveguide Transmission Lines and Test Port Adapters

Straight Sections and Transitions

Description

Maury produces waveguide components in many EIA WR sizes. A comprehensive line of standard rectangular products is available in the sizes shown below. They are generally supplied with cover flanges. Units from R through P bands are normally aluminum construction with irridite finish; K band and above are copper alloy with a plated finish. All units are painted with highly

durable paint, or other special order finishes. Maury can provide waveguide devices with any flange type, material or finish you require. Special waveguide devices in millimeter sizes from 18 to 110 GHz (WR62 to WR10), large waveguides (WR430), and many special configurations such as: flatguide, reduced height, round, etc. can also be provided.



Rectangular Transmission Lines

MODEL	FREQUENCY RANGE (GHz)	LENGTH ¹ INCHES (CM)
S102A12 ²	2.60 — 3.95	12.00 (30.5)
G102A8 ²	3.95 — 5.85	8.00 (20.3)
C101A8 ³	5.85 — 8.20	8.00 (20.3)
H101A6 ³	7.05 — 10.00	6.00 (15.2)
X101A6 ³	8.20 — 12.40	6.00 (15.2)
M102A6 ²	10.00 — 15.00	6.00 (15.2)
P101A6 ³	12.40 — 18.00	6.00 (15.2)
N102A4 ²	15.00 — 22.00	4.00 (10.2)
K101A4 ³	18.00 — 26.50	4.00 (10.2)
U101A4 ³	26.50 — 40.00	4.00 (10.2)
Q102A4 ²	22.00 — 33.00	4.00 (10.2)

Millimeter Waveguide Transmission Lines

MODEL	FREQUENCY RANGE (GHz)	LENGTH ¹ INCHES (CM)
J103A3 ³	33.0 — 50.0	3.00 (7.6)
V103A2 ³	50.0 — 75.0	2.00 (5.1)
Z103A2 ³	75.0 — 110.0	2.00 (5.1)

Millimeter Wave Test Port Adapters (Straight Sections)

MODEL	FREQUENCY RANGE (GHz)	LENGTH ¹ INCHES (CM)
U103A1.375	26.5 — 40.0	1.375 (3.51)
J115B1	33.0 — 50.0	1.97 (5.00)
T115B	40.0 — 60.0	1.97 (5.00)
V115C	50.0 — 75.0	1.50 (3.81)
Y115B	60.0 — 90.0	1.97 (5.00)
Z115A	75.0 — 110.0	1.375 (3.51)

Millimeter Waveguide Transmission Lines

MODEL	FREQUENCY RANGE (GHz)	LENGTH ¹ INCHES (CM)
J106B ⁴	33.0 — 50.0	1.96 (5.0)
V106B ⁴	50.0 — 75.0	1.96 (5.0)
T106B ⁵	40.0 — 60.0	1.96 (5.0)
Y106B ⁵	60.0 — 90.0	1.96 (5.0)
Z106B ⁵	75.0 — 110.0	1.96 (5.0)

Rectangular to Rectangular Waveguide Stepped Transitions – Overlapping Bands

MODEL	FREQUENCY RANGE (GHz) AND MAXIMUM VSWR				EIA WAVEGUIDE SIZES		EQUIVALENT FLANGES		LENGTH ¹ INCHES (CM)
					SIDE A	SIDE B	SIDE A	SIDE B	
H161C	8.20	—	10.00	≤ 1.05	112	90	CPR112F	UG39/U	1.5 (3.8)
X161	10.00	—	12.40	≤ 1.05	90	75	UG39/U	MPF75	2.4 (6.1)
M161	12.40	—	15.00	≤ 1.05	75	62	MPF75	UG419/U	2.4 (6.1)

¹ Other lengths can be provided. Please specify when ordering.

² Aluminum construction.

³ Brass plated construction.

⁴ Precision aluminum straight sections.

⁵ To request straight sections made out of solid aluminum, specify band, length, and 104 series.