

Features

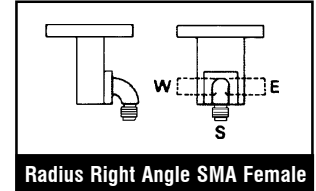
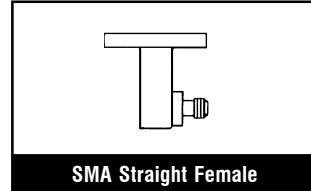
- VSWR typ. 1.3:1
- Insertion Loss typ. <0.15 dB
- SMA, N, 7 mm connectors standard
- Connectors per MIL-PRF-39012
- Aluminum, brass, copper material
- Standard Finish: gold chromate with black paint

MIDISCO Rectangular Coaxial to Waveguide Adapters are available as standard items in fourteen common waveguide sizes as shown in the accompanying table. Five connector styles are offered, including an SMA swept radius right angle which can be specified in one of three orientations. TNC and other connectors also available. Units to 40 GHz also available as well as units with lower VSWR.

Freq (GHz)	Waveguide Size	Model Number†	VSWR (typ.)	Insertion Loss (dB typ.)
1.12-1.70	WR650	x-650-m-f	1.3	.15
1.70-2.60	WR430	x-430-m-f	1.3	.15
2.20-3.25	WR340	x-340-m-f	1.3	.15
2.60-3.95	WR284	x-284-m-f	1.3	.15
3.30-4.90	WR229	x-229-m-f	1.3	.15
3.95-5.85	WR187	x-187-m-f	1.3	.15
4.90-7.05	WR159	x-159-m-f	1.3	.15
5.85-8.20	WR137	x-137-m-f	1.3	.15
7.00-11.00	WR102	x-102-m-f	1.3	.15
7.05-10.00	WR112	x-112-m-f	1.3	.15
8.20-12.40	WR90	x-900-m-f	1.3	.15
10.00-15.00	WR75	x-750-m-f	1.4	.20
12.40-18.00	WR62	x-620-m-f	1.4	.20
18.00-26.50	WR42	x-420-m-f	1.5	.25
26.50-40	WR28	x-280-m-f	1.5	.20

†: x (Connector Type), m (Material), & f (Flange) to be selected by customer.

For example, an SM-900-A-1 is a WR90 (8.20 to 12.4 GHz) aluminum adapter with a cover flange and an SMA female coaxial connector.



Notes:

Right angle connector will be supplied in position "S" unless orientation is specified. When inquiring, specify restricted frequency ranges whenever possible for better performance or lower cost.

Connector Type

N	Type N female
SM	SMA female
RRSM	Radius right angle SMA female
7	7mm
SMM	SMA male
2.4F	2.4mm female
2.9F	2.9mm female

Material

A	Aluminum
B	Brass
C	Copper
S	Special

Flange

1	Cover
2	Choke
3	CPRF
4	CPRG
5	Special
6	CMR

MIDISCO can also supply coaxial to waveguide adapters including additional sizes, reduced height, extended range and custom configurations. Please call the factory.

Ordering Information

Using the accompanying tables for waveguide size, connector type, material and flange type, the user can construct the part number for the desired coaxial to waveguide adapter.

MIDISCO Waveguide Components

MIDISCO also has a broad assortment of other waveguide components as summarized below. For additional information, please consult the factory Technical Sales Department.

- High power Coaxial to Waveguide Adapters
- High power end launch Coaxial to Waveguide Adapters
- Double Ridge Precision Coaxial to Waveguide Adapters
- Straight, flanged waveguide sections
- Rigid, flanged twists
- Flexible, and twistable-flexible flanged waveguide sections
- Low and high power fixed waveguide loads and terminations
- Directional Couplers
- Waveguide transitions (VSWR 1.10:1 max in the overlap frequency bands)