

Hybrid Waveguide Combiner

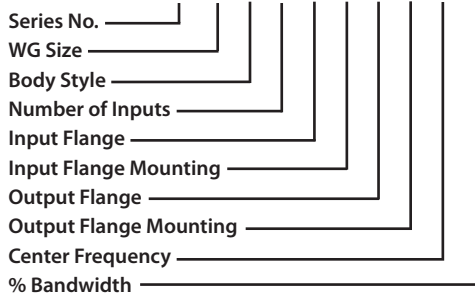
Series No: 149

Part Description

UBS offers a standard product line of hybrid waveguide combiners covering waveguide sizes from WR-28 through WR-650. The size and frequency listed in the Specifications table are standard waveguide frequency ranges; actual combiner frequency range is typically 15% of the total bandwidth.

Ordering Data

Part Number - 149 - X - X - X - X - X - X - X - X - X



Flange Configuration

Flange Type	C - Cover G - Groove CHOKE CMR CPR (F, G)
Flange Mounting Holes	T1 - Through Holes T2 - Threaded A - Alternating

Specifications

Size	Frequency GHz
WR28	26.50 - 40.00
WR34	22.00 - 33.00
WR42	18.00 - 26.50
WR51	15.00 - 22.00
WR62	12.40 - 18.00
WR75	10.00 - 15.00
WR90	8.20 - 12.40
WR112	7.05 - 10.00
WR137	5.85 - 8.20
WR159	4.90 - 7.05
WR187	3.95 - 5.85
WR229	3.30 - 4.90
WR284	2.60 - 3.95
WR340	2.20 - 3.30
WR430	1.70 - 2.60
WR650	1.12 - 1.70

STANDARD FINISH: is electroless corrosion protection for the metal surface, plus "Admiralty Gray" epoxy top coat. Non standard configurations and finishes (Silver, Nickel, Cadmium plating) are available upon request.

NOTE: WR340 S-Band and WR112 X-Band samples listed; other configuration available. Please contact our sales department with your requirements.

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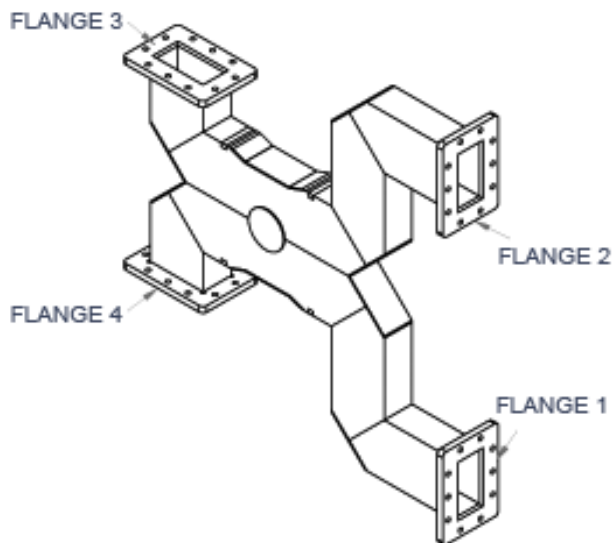
S-Band 2-way Combiner Specifications

Operating Frequency Range	2.5 to 2.7 GHz
Center Frequency	2.60 GHz
Bandwidth	200 MHz
VSWR	1.25:1 max.
Insertion Loss	0.25 dB max.
Isolation	18 dB typ.
Amplitude Unbalance	± 0.25 dB

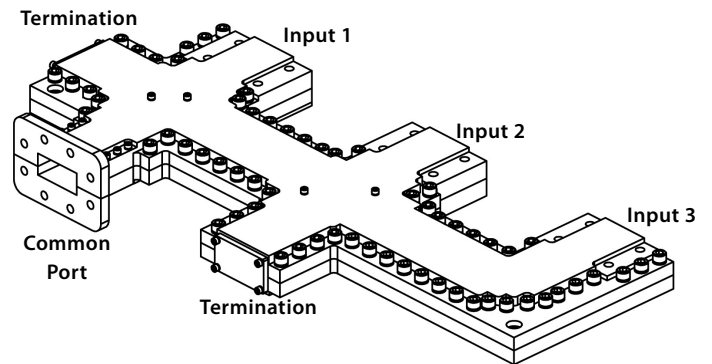
X-Band 3-way Combiner Specifications

Operating Frequency Range	7.9 to 8.4 GHz
Center Frequency	8.15 GHz
Bandwidth	500 MHz
Power Handling	600W CW typ.
VSWR	1.1:1 max.
Insertion Loss	0.20 dB max.
Isolation	26 dB typ.
Amplitude Unbalance	± 0.1 dB

Style 1



Style 2 (Note 1)



NOTE 1: CPR flange shown. Other flange styles available. C-Band WR137 also available in same dimensions.