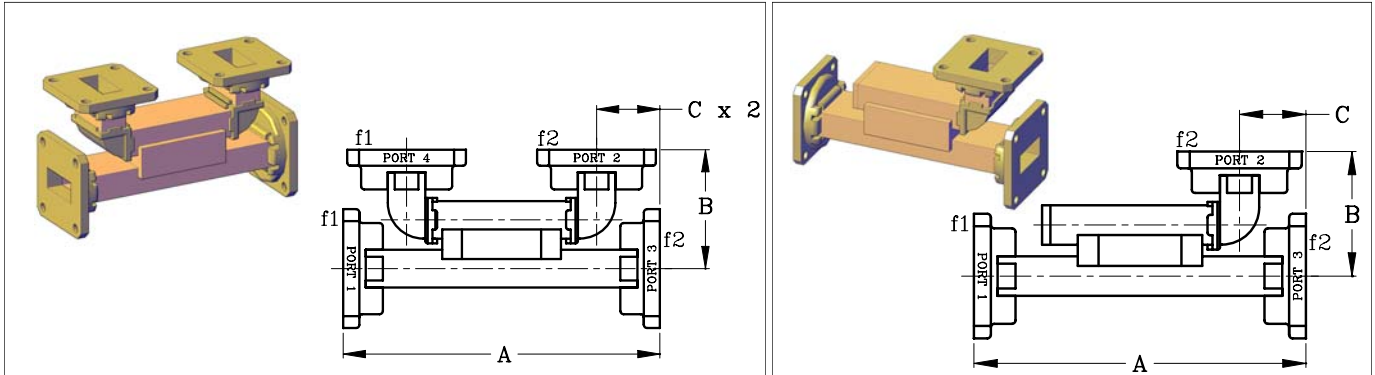


Space Machine & Engineering CORP.

Rectangular Waveguide Branch Guide Couplers



Model	WR #	Frequency (GHz)	A	B	C
BGC62-	62	12.40 – 18.00	4.00	1.50	0.75
BGC75-	75	10.00 – 15.00	4.00	1.50	0.75
BGC90-	90	8.20 – 12.40	6.00	2.50	1.00
BGC102-	102	7.00 – 11.00	7.00	2.50	1.00
BGC112-	112	7.05 – 10.00	8.00	2.50	1.00
BGC137-	137	5.85 – 8.20	10.00	2.75	1.50
BGC159-	159	4.90 – 7.05	10.00	3.00	2.00
BGC187-	187	3.95 – 5.85	11.00	3.50	2.00
BGC229-	229	3.30 – 4.90	12.00	4.00	2.50
BGC284-	284	2.60 – 3.95	12.00	4.00	3.00

Space Machine custom fabricates a standard product line of branch guide couplers covering waveguide sizes WR62 thru WR284. Inherently full band coupling is not very flat, but coupling over 25% bandwidth is held to $\pm 0.5\text{dB}$. Directivity is 20dB minimum. Additional sizes and configurations are available upon request.

Ordering Information:

Branch Guide Coupler, WR112, Bronze,
3dB Coupling, Cover / Cover Flanges, Chromated,
Paint Space Machine Gray.

Example part number:

BGC **wr** **-m** **c** **-f1 f2** **-p** **f**
BGC 112 -B 3 -01 01 -C P

Series (BGC):

Waveguide Size (wr): WR62 thru WR284

Material (-m): A – Aluminum, B – Bronze, O – Other

Coupling (c): 3 – 15 dB

Flange (-f1 f2): See [Appendix G](#)

Plating (-p): C – Chromate, S – Silver, G – Gold, O – Other, N – None

Finish (f): P – Paint Space Machine Gray, N – None, O – Other