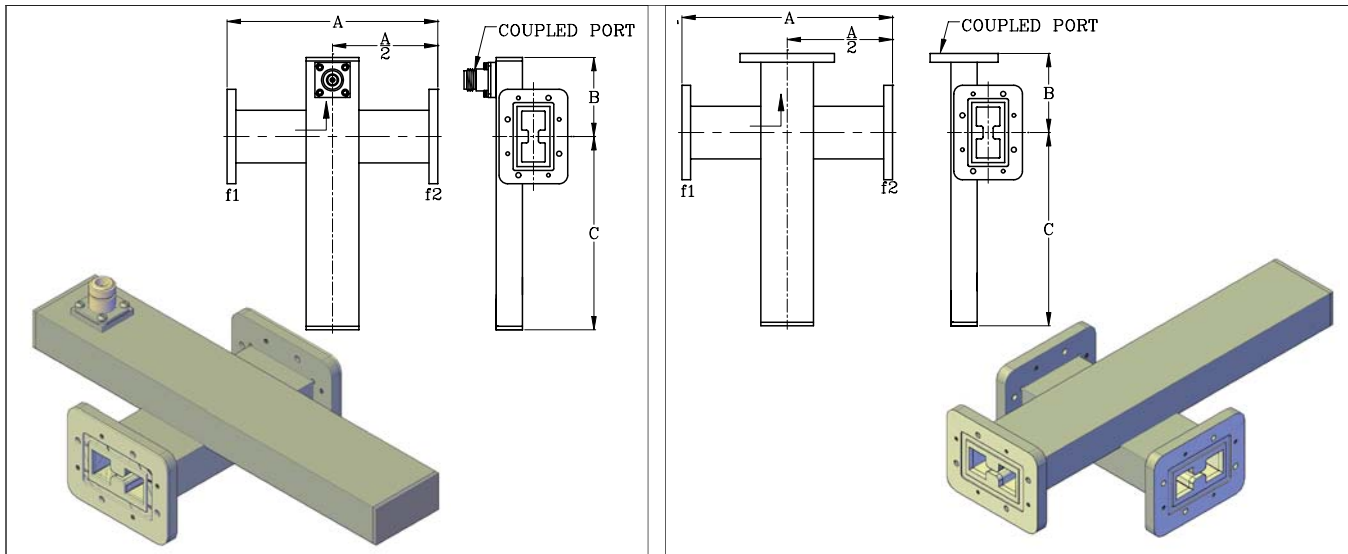


## Double Ridge Waveguide Cross Guide Couplers



Model	WRD #	Frequency (GHz)	A	B	C	Model	WRD #	Frequency (GHz)	A	B	C
DDG180-	180	18.00 - 40.00	2.50	1.25	6.50	DDG500-	500	5.00 - 18.00	3.00	2.25	10.50
DDG110-	110	11.00 - 26.50	2.50	1.25	7.50	DDG475-	475	4.75 - 11.00	3.25	2.50	11.75
DDG750-	750	7.50 - 18.00	2.75	2.00	9.50	DDG350-	350	3.50 - 8.20	3.75	3.25	14.50
DDG650-	650	6.50 - 18.00	3.00	2.00	9.75	DDG250-	250	2.60 - 7.80	4.00	3.75	16.25
DDG580-	580	5.80 - 16.00	3.00	2.25	9.75	DDG200-	200	2.00 - 4.80	5.00	6.00	18.00

Space Machine custom fabricates a standard product line of double ridge cross guide couplers covering waveguide sizes WRD180 thru WRD200. Coupling variation is typically  $\pm 5$ dB over the full waveguide band. Directivity is 12dB minimum. Additional sizes and configurations are available upon request.

### Ordering Information:

**Double Ridge Cross Guide Coupler,  
WRD350, Aluminum, 40dB Coupling,  
Type N Female Coupled Port, Casket / Cover Flanges,  
Chromated, Paint Space Machine Gray.**

Example part number:

**DDG wrd -m c cp -f1 f2 -p f**  
DDG 350 -A 40 NF -02 01 -C P

Series (DDG):

Waveguide Size (wrd): WRD180 thru WRD200

Material (-m): A – Aluminum

Coupling (c): 35 - 60 dB

Coupled Port (cp): Connector – See [Appendix E](#),  
Flange – See [Appendix H](#)

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

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

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