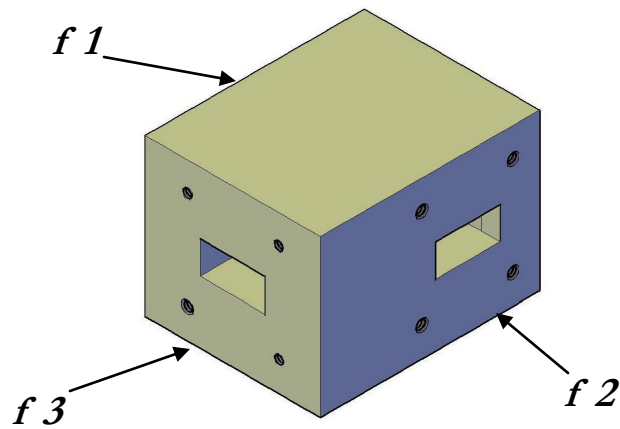


## Rectangular Waveguide Circulators



Model	WR #	Frequency (GHz)	Isolation (dB)	Insertion Loss (dB) Max.	VSWR	Maximum Average Power (W)	Maximum Peak Power (KW)
WFC284	284	2.60 - 3.95	18	0.4	1.30:1	1500	1250
WFC187	187	3.95 - 5.85	18	0.4	1.30:1	1250	1000
WFC159	159	4.90 - 7.05	18	0.4	1.30:1	1000	850
WFC137	137	5.85 - 8.20	18	0.4	1.30:1	750	500
WFC112	112	7.05 - 10.00	18	0.4	1.30:1	600	350
WFC90	90	8.20 - 12.40	18	0.4	1.35:1	400	150
WFC75	75	10.00 - 15.00	15	0.5	1.35:1	250	100
WFC62	62	12.40 - 18.00	15	0.5	1.40:1	150	75

Space Machine & Engineering offers a standard product line of rectangular waveguide ferrite Circulators covering waveguide sizes WR62 thru WR284. These Circulators are permanent magnet 3 port devices that use a Y-junction structure housed in standard rectangular waveguide. Greater isolation, better insertion loss and VSWR are achievable with reduced bandwidths. Please specify required bandwidth and pressurization requirements when ordering.

### Ordering Information:

Rectangular Waveguide Circulator,  
WR90, Aluminum, Cover Flanges  
Chromated, Paint None.

Example part number:

**WFC** **wr** **-m** **f1 f2 f3** **-p** **f**  
WFC 112 -A 01 01 01 -C N

Series (WFC):

Waveguide Size (wr): WR62 thru WR284

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

Flange (f1 f2 f3): See [Appendix G](#)

Plating (-p): C – Chromate

Finish (f): N – None, O – Heat Resistant Flat Black