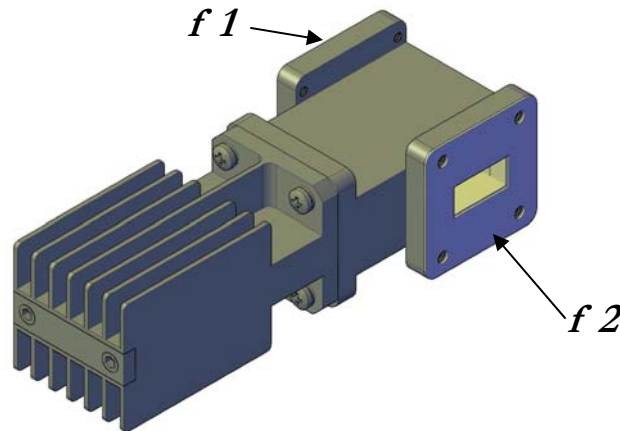


Rectangular Waveguide Isolators



Model	WR #	Frequency (GHz)	Isolation (dB)	Insertion Loss (dB) Max.	VSWR	Maximum Average Power (W)	Maximum Peak Power (KW)
WFI284	284	2.60 - 3.95	18	0.4	1.30:1	1500	1250
WFI187	187	3.95 - 5.85	18	0.4	1.30:1	1250	1000
WFI159	159	4.90 - 7.05	18	0.4	1.30:1	1000	850
WFI137	137	5.85 - 8.20	18	0.4	1.30:1	750	500
WFI112	112	7.05 - 10.00	18	0.4	1.30:1	600	350
WFI90	90	8.20 - 12.40	18	0.4	1.35:1	400	150
WFI75	75	10.00 - 15.00	15	0.5	1.35:1	250	100
WFI62	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 Isolators covering waveguide sizes WR62 thru WR284. These Isolators are permanent magnet 3 port devices that use a Y-junction structure housed in standard rectangular waveguide with the addition of a matched termination. 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 Isolator,
WR90, Aluminum, Cover Flanges
Chromated, Paint Heat Resistant Flat Black.**

Example part number:

WFI **wr** **-m** **f1 f2** **-p** **f**
WFI 112 -A 01 01 -C O

Series (WFI):

Waveguide Size (wr): WR62 thru WR284

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

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

Plating (-p): C – Chromate

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