

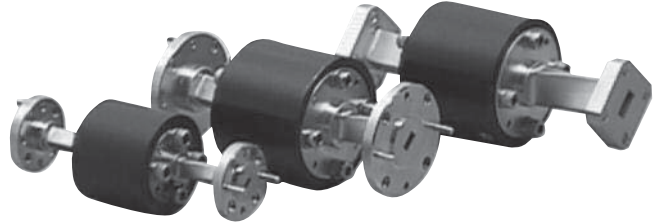


Fullband Isolators

QIF

Characteristics

- ◆ Full Waveguide Bandwidths
- ◆ Low Insertion Loss and VSWR
- ◆ High Wideband Isolation



Product Description

QuinStar Technology's **QIF series fullband isolators** are available in six waveguide bands covering the frequency range of 26.5 to 110 GHz. These isolators are Faraday-rotation type ferrite devices with bandwidths covering a full waveguide band.

Series QIF isolators provide a minimum of 25 dB of isolation and typically more than 30 dB across most of the

waveguide bands. The isolators can handle power levels from one Watt at W-band to two Watts at Ka-band. They provide isolation over wider bandwidths than single-junction waveguide isolators. The wide bandwidth of these isolators makes them ideally suited for broadband or swept frequency applications and wideband measurement systems.

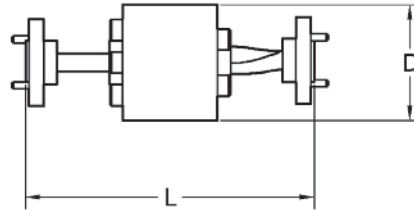
Specifications

FREQUENCY BAND	Ka	Q	U	V	E	W
Frequency Range (GHz)	26.5-40	33-50	40-60	50-75	60-90	75-110
Waveguide Size	WR-28	WR-22	WR-19	WR-15	WR-12	WR-10
FULLBAND ISOLATORS						
Insertion Loss (dB max)	1.3	1.4	1.6	1.7	2.0	2.2
Isolation (dB min)	25	27	27	27	27	27
VSWR (max)	1.45:1	1.4:1	1.4:1	1.4:1	1.4:1	1.4:1
Power Rating (W max)	2.0	1.5	1.5	1.0	1.0	1.0

Other waveguide sizes are available.



Outline Drawing/Mechanical Specifications



(round flange pattern shown)

FREQUENCY BAND	WAVEGUIDE SIZE	FLANGE PATTERN	OUTLINE DIMENSIONS, inches/mm	
			L	D
Ka	WR-28	UG-599/U	2.95/74.9	1.31/33.3
Q	WR-22	UG-383/U	2.69/68.3	1.31/33.3
U	WR-19	UG-383/U	2.69/68.3	1.31/33.3
V	WR-15	UG-385/U	2.50/63.5	1.00/25.4
E	WR-12	UG-387/U	2.50/63.5	1.00/25.4
W	WR-10	UG-387/U	2.50/63.5	1.00/25.4

Other waveguide sizes are available.

Ordering Information

Model Number **QIF - A 00000**

