



HFBI Series Faraday Isolator 26.5 to 110 GHz

HXI's HFBI series of full band Faraday-type isolators are available from WR-28 through WR-10 waveguide sizes (26.5 to 110 GHz). These isolators provide superior isolation over a very wide band, which is their advantage over junction-type isolators, making them desirable for test instrumentation applications.

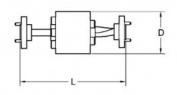
HXI's quality waveguide and flanges used in the isolators provide precision connections between subsystem components with little impact on signal level and inter-component match.



Specifications

Frequency band	Ka	Q	U	V	Е	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
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 Handling (W)	2.0	1.5	1.5	1.0	1.0	1.0

Mechanical Specifications



Frequency	Waveguide	Flango	Product Dimensions		
Band	Size	Flange	L	D	
Ka	WR-28	UG-599/U	2.95", 74.9 mm	1.31", 33.3 mm	
Q	WR-22	UG-383/U	2.69", 68.3 mm	1.31", 33.3 mm	
U	WR-19	UG-383/U-M	2.69", 68.3 mm	1.31", 33.3 mm	
V	WR-15	UG-385/U	2.50", 63.5 mm	1.00", 25.4 mm	
E	WR-12	UG-387/U	2.50", 63.5 mm	1.00", 25.4 mm	
W	WR-10	UG-387/U-M	2.50", 63.5 mm	1.00", 25.4 mm	

Ordering Information

