

Description:

RPG offers a series of fullband Faraday isolators. They are covering the frequency range of 50 to 220 GHz. These isolators are Faraday rotation type ferrite devices with bandwidths covering a full waveguide band. They are compact and lightweight, and provide much greater isolation than waveguide junction isolators.



Features:

- Low insertion loss
- Full band operation
- 50 to 220 GHz
- Compact size
- Cryogenic version available

Applications:

- Measurement and instrumentation
- Millimeter wave receiver
- Broadband or swept frequency applications
- Wideband measurement systems

Specifications:

	WR15	WR12	WR10	WR8	WR6.5	WR5.1
Frequency range	50 – 75 GHz	60 – 90 GHz	75 – 110 GHz	90 – 140 GHz	110 – 170 GHz	140 – 220 GHz
RF – Interface	WR15 with Flange UG387 HP/A	WR12 with Flange UG387 HP/A	WR10 with Flange UG387 HP/A	WR8 with Flange UG387 ¹⁾	WR6.5 with Flange UG387 ¹⁾	WR5.1 with Flange UG387 ¹⁾
Insertion Loss	0.6 dB	0.8 dB	0.9 dB	1.1 dB	1.3 dB	1.4 dB
Isolation	> 20 dB	> 20 dB	> 20 dB	> 20 dB	> 20 dB	> 18 dB
VSWR	1.4:1	1.4:1	1.4:1	1.4:1	1.4:1	1.4:1
max. Input Power	+20 dBm	+20 dBm	+20 dBm	+20 dBm	+20 dBm	+20 dBm
Dimensions (mm/in)	19 x 19 x 22.8 .75 x .75 x .9	19 x 19 x 18 .75 x .75 x .71	19 x 19 x 17 .75 x .75 x .67	19 x 19 x 14 .75 x .75 x .55	19 x 19 x 10 .75 x .75 x .4	19 x 19 x 9 .75 x .75 x .35
Order code	WFI-75	WFI-90	WFI-110	WFI-140	WFI-170	WFI-220

All values are typical.

Note: ¹⁾ Precision anti cocking Flange with narrow dimension.