



**FLANN MICROWAVE**

## Waveguide Switch, Compact H-plane

Series 337

### Features

- Compact lightweight waveguide switch
- Increased data capacity
- Ultra-high RF & Mechanical performance
- High power (peak & CW)
- 24 – 400 GHz models available
- Capability to integrate with other instruments in same topology as single-piece unit

Flann Microwave offers a comprehensive range of waveguide switches with high performance.

As such, we are proud to launch a new range of millimetric waveguide switches to suit the increasing demand for the next stage of 5G, 6G & LEO/MEO satellites and expanding use by Military & Astronomy over 28-400 GHz.

The new 337 series is a range of small, compact, low mass, low inertia, low insertion loss, high power switch with higher isolation and minimal PIM.

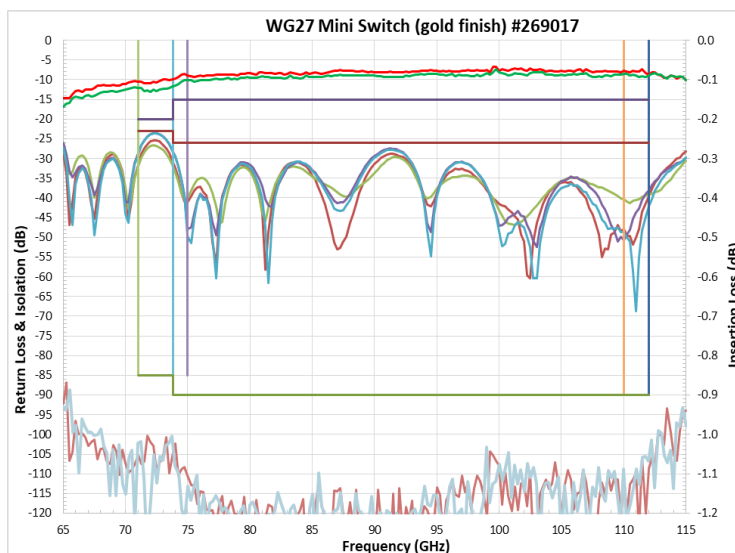
One new feature is a simplified drive only requiring DC voltage with electronic sensors for tell-back.

Drive control can be customised to suit bespoke requirements.

H-plane structure allows easy integration with other components, giving the potential to create an entire switching network to include multiple switches, combiners, or filters/diplexers etc.

Rotor & stator are manufactured as single pieces with no contact or joining mechanisms, just two metal components with a sophisticated choked air gap.

The result is a very compact, very robust, perfect waveguide structure.



Performance of Model 27337 shown over the standard and extended frequency ranges.

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## Waveguide Switch, Compact H-plane

Series 337

Model	WG	WR	Standard WG Band				Mean Power (W)	Flange to Flange Dimension (mm)
			Frequency (GHz)*	Return Loss (dB)	Insertion Loss (dB)	Isolation (dB)		
22337	22	28	26.4-40.1	26.0	0.08	90	700	38.0
23337	23	22	33-50.1	26.0	0.10	90	400	32.5
24337	24	19	39.3-60	25.5	0.10	90	350	28.5
25337	25	15	49.9-75.8	25.5	0.11	90	250	22.5
26337	26	12	60.5-92	25.5	0.12	90	200	18.0
27337	27	10	73.8-112	25.5	0.16	90	150	17.3
28337	28	8	92.3-140	24.5	0.20	85	100	15.5
29337	29	6	114-173	23.0	0.25	85	80	15.5
30337	30	5	145-220	21.5	0.40	80	55	15.5
31337	31	4	172-261	19.5	0.50	75	45	
32337	32	3	217-330	17.5	0.75	75	30	

\*Extended frequency ranges available.

### Related Products

Series 330 – Waveguide Switch, Space Flight

Series 333 - Waveguide Switch

Series 334 - Waveguide Switch, DC Driven

Series 338 - Waveguide Switch, Power over Ethernet

### Custom Design

Custom built instruments can be supplied; please contact the sales team for more information [sales@flann.com](mailto:sales@flann.com)

### Notes

The WG23-32 switch uses miniature flanges; however, they are offered with an optional set of very short flange adaptors to standard flange types.

The switch has H-plane ports as standard however they can be fitted with very short-stepped twists to convert to E-plane & standard flanges.

The standard control interface is lead tails. Other interfaces are available on request.

### Options

- Drop-in availability
- Integration with other components
- Multiple or ganged versions
- TVAC suitable option

### Ordering Information

When ordering please specify the following:

WG designation

Model series (337)

Flange – See Flann.com

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