

### Features

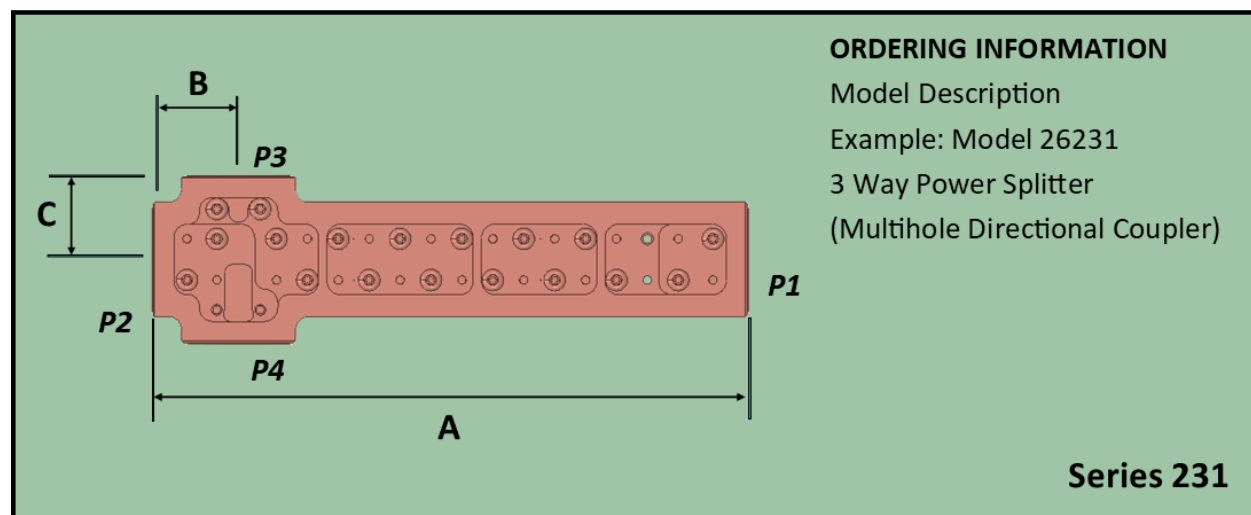
- High directivity
- Multi-hole coupling
- Balanced response between side-coupled arms
- Average three-way split over band



Flann's multi-hole millimetric 3-way power splitters consist of a central waveguide with coupling arrays in the broad walls designed to divide the input signal into three signals of approximately equal magnitude. Normally, the instrument is a 4-port device as illustrated. However, for network analyser applications where only two equal amplitude signals are required the central output port may be terminated.

These instruments are precision machined structures which ensure very close matching between the secondary waveguide ports over the full waveguide band, typically better than  $\pm 0.3$  dB up to 75 GHz and  $\pm 0.5$  dB above 75 GHz. The coupling to each output port is, on average, approximately the same for a given instrument (waveguide size).

**IMPORTANT!** Quoted directivity assumes an ideal termination.





### Specifications

Model	Frequency Range (GHz)	Waveguide			Minimum Directivity (dB)	Average coupling to ports 2, 3 and 4 (dB)	Balance between coupled ports (dB)	Length (mm)
		WG	R	WR				
23231	33.0 - 50.1	23	400	22	36	4.9	± 0.3	165
24231	73.8 - 112	24	500	19	33	5.0	± 0.3	155
25231	49.9 - 75.8	25	620	15	33	5.1	± 0.3	130
26231	60.0 - 92.0	26	740	12	30	5.2	± 0.4	110
27231	73.8 - 112	27	900	10	27	5.4	± 0.5	95
28231	90 - 140	28	1200	08	25	5.5	± 0.5	80
29231	110 - 173	29	1400	06	23	5.5	± 0.5	65
30231	140 - 220	30	1800	05	21	5.7	± 0.5	55
31231	170 - 261	31	2200	04	Specifications available on request			
32231	217 - 330	32	2600	03				

### Custom Design

Customised versions of this instrument are possible. Please contact the Sales Team for more information [sales@flann.com](mailto:sales@flann.com)

### Ordering Information

WG	Model	-	Optional
23 to 32	231		