

Multihole Directional Couplers

Series 230

Features

- **High Directivity**
- **3 Way Signal Splitter**
- **± 0.2 dB Balance Between Coupled Arms**

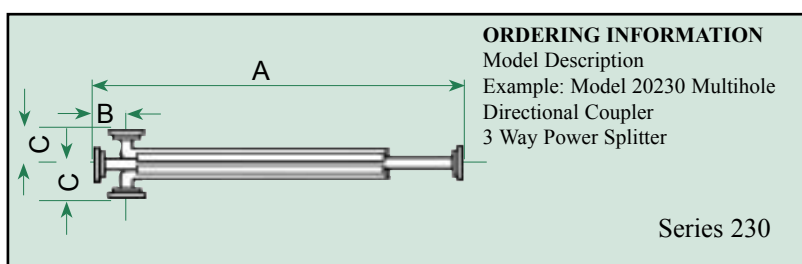
The Flann Multihole Power Splitter consists of a central waveguide with coupling arrays in the broad walls designed to divide the input signal into three signals of equal magnitude.

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. Precision machining methods ensure that the full band frequency sensitivity between secondary waveguide ports is better than ± 0.2 dB. The coupling to each output port is 4.8 dB down with respect to the input signal. Directivity for most models is greater than 40 dB.

IMPORTANT! All directivities quoted include the measuring port and flange performance when connected to an ideal termination.



Model 22230



Model	Frequency Range (GHz)	Waveguide			Maximum Directivity (dB)	Sensitivity Between Coupled Ports (dB)	Dimensions (mm)			Weight (kg)	Model
		WG	R	WR			A	B	C		
10230	2.60 - 3.95	10	32	284	40	±0.2	1773	85	130	19.0	10230
11A230	3.30 - 4.90	11A	40	229	40	±0.2	1407	79	100	9.3	11A230
12230	3.94 - 5.99	12	48	187	40	±0.2	1213	60	90	8.4	12230
14230	5.38 - 8.18	14	70	137	40	±0.2	976	50	60	5.0	14230
15230	6.58 - 10.0	15	84	112	40	±0.2	753	35	50	3.0	15230
16230	8.20 - 12.5	16	100	90	40	±0.2	649	35	45	1.9	16230
17230	9.84 - 15.0	17	120	75	40	±0.2	522	35	40	1.4	17230
18230	11.9 - 18.0	18	140	62	40	±0.2	438	30	35	0.9	18230
19230	14.5 - 22.0	19	180	51	40	±0.2	392	30	35	0.7	19230
20230	17.6 - 26.7	20	220	42	38	±0.3	310	25	25	0.4	20230
22230	26.4 - 40.1	22	320	28	38	±0.3	228	24	29	0.3	22230
23230	33.0 - 50.1	23	400	22	36	±0.3	224	18	29	0.4	23230
24230	39.3 - 59.7	24	500	19	33	±0.3	195	18	29	0.3	24230
25230	49.9 - 75.8	25	620	15	33	±0.3	164	16	27	0.25	25230
26230	60.5 - 92.0	26	740	12	30	±0.4	143	16	27	0.2	26230
27230	73.8 - 112	27	900	10	27	±0.5	127	16	25	0.2	27230
28230	92.3 - 140	28	1200	8	25	±0.5	111	16	25	0.2	28230

Note: Please refer to page 27 for definitions of Flann coupler specifications.

For standard flange types and recommendations see pages 108 onwards