

**Features**

- **46 dB High Directivity**
- **Models up to 40.1 GHz**
- **Low Coupling Sensitivity**

The Flann Series 132 directional couplers provide a very high directivity and have been designed for use in quality waveguide measurement systems within the frequency range 3.3 GHz to 40.1 GHz.



Model: 22132-03

The configuration is of a 3-port instrument incorporating a built-in low reflection termination. The coupling array is designed to achieve low sensitivity of coupling versus frequency whilst maintaining main arm VSWR. The standard coupling values are 3, 10 and 20 dB for each waveguide size. Other values can be supplied, for example 6, 30 and 40 dB.

Specifications

Model	Frequency Range (GHz)	Waveguide			Minimum Directivity (dB)	Coupling (3, 10 & 20 dB)		Additional Primary Arm Loss (dB)	Primary Arm VSWR*	Secondary Arm VSWR
		WG	R	WR		Sensitivity (\pm dB)	Nominal Accuracy (dB)**			
10132	2.60 - 3.95	10	32	284	46	0.5	5%	N/A	1.03	1.10
11A132	3.22 - 4.90	11A	40	229	46	0.5	5%	N/A	1.03	1.10
12132	3.94 - 5.99	12	48	187	46	0.5	5%	N/A	1.03	1.10
13132	4.64 - 7.05	13	58	159	46	0.5	5%	N/A	1.03	1.10
14132	5.38 - 8.18	14	70	137	46	0.5	5%	N/A	1.03	1.10
15132	6.58 - 10.0	15	84	112	46	0.5	5%	N/A	1.03	1.10
16132	8.20 - 12.5	16	100	90	46	0.5	5%	N/A	1.03	1.10
17132	9.84 - 15.0	17	120	75	43	0.5	5%	N/A	1.03	1.10
18132	11.9 - 18.0	18	140	62	43	0.5	5%	N/A	1.03	1.10
19132	14.5 - 22.0	19	180	51	43	0.5	5%	0.2	1.03	1.10
20132	17.6 - 26.7	20	220	42	43	0.75	7%	0.3	1.03	1.20
21132	21.7 - 33.0	21	260	34	43	0.75	7%	0.4	1.03	1.20
22132	26.4 - 40.1	22	320	28	43	0.75	7%	0.5	1.03	1.20

* Primary arm VSWR specification is 1.10:1 for all 3 dB couplers.

** Nominal coupling accuracy for 3 dB and 6 dB couplers is \pm 0.5 dB.

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**Outline Dimensions**

Model	Frequency Range (GHz)	Waveguide			Minimum Directivity (dB)	Coupling (3, 10 & 20 dB)		Additional Primary Arm Loss (dB)	Primary Arm VSWR*	Secondary Arm VSWR
		WG	R	WR		Sensitivity (\pm dB)	Nominal Accuracy (dB)**			
10132	2.60 - 3.95	10	32	284	46	0.5	5%	N/A	1.03	1.1
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19132	14.5 - 22.0	19	180	51	43	0.5	5%	0.2	1.03	1.1
20132	17.6 - 26.7	20	220	42	43	0.75	7%	0.3	1.03	1.2
21132	21.7 - 33.0	21	260	34	43	0.75	7%	0.4	1.03	1.2
22132	26.4 - 40.1	22	320	28	43	0.75	7%	0.5	1.03	1.2

Custom Design

Custom built instruments can be supplied; please contact the sales team for more information

sales@flann.com

Ordering

Model	Series		Coupling Value	Flange
WG10 – WG22	132		3dB, 6dB, 10dB, 20dB, 30dB, 40dB	See flann.com

Example: 17132-10 UBR120

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