



FLANN MICROWAVE

Rotary Vane Phase Changers

Series 063

Features

- Direct Reading
- 0° – 360° Continuous Phase Change
- High Repeatability
- Low Insertion Loss



Model 18063

The Flann Series 063 of instruments facilitates the continuous control of phase change over the range 0° to 360°. A ten-turn drum scale is linearly calibrated in degrees and indicates differential phase change to a smallest increment of 0.2°.

The rotary vane phase changer consists of a pair of rectangular to circular, stepped or tapered, electroformed transitions providing good VSWR whilst ensuring minimal overall length. Each transition incorporates a mode suppression vane and dielectric quarter wave plate.

The differential phase change is determined by the relative angular position of the dielectric half wave plate housed in the rotating circular waveguide section. The Rotary Vane Phase Changer is direct reading and frequency insensitive making it suitable for use in microwave bridges and precise phase change measurements.

Custom Design

Custom built instruments can be supplied; please contact the sales team for more information sales@flann.com

FLANN MICROWAVE LTD.

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GET IN TOUCH:

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**Specifications**

Model	Frequency Range (GHz)	Waveguide			Accuracy	Maxim Insertion Loss (dB)	VSWR (better than)	Maximum Power (Watts)
		WG	R	WR				
08063	1.72 – 2.61	8	22	430	3°	1	1.25	15
10063	2.60 – 3.95	10	32	430	3°	1	1.25	15
11A063	3.22 – 4.90	11A	40	229	3°	1	1.25	15
12063	3.94 – 5.99	12	48	187	3°	1	1.25	10
13063	4.64 – 7.05	13	58	159	3°	1	1.25	10
14063	5.38 – 8.18	14	70	137	3°	1	1.25	10
15063	6.58 – 10.0	15	84	112	3°	1	1.25	10
16063	8.20 – 12.5	16	100	90	3°	1	1.25	10
17063	9.84 – 15.0	17	120	75	3°	1	1.25	5
18063	11.9 – 18.0	18	140	62	4°	1	1.3	5
19063	14.5 – 22.0	19	180	51	4°	1	1.3	4
20063	17.6 – 26.7	20	220	42	4°	1	1.3	3
21063	21.7 – 33.0	21	26	34	4°	1	1.3	2.5
22063	26.4 – 40.1	22	320	28	4°	1	1.3	2
23063	33.0 – 50.1	23	400	22	4°	1	1.3	1.5
24063	39.3 – 59.7	24	500	19	4°	1.5	1.3	1
25063	49.9 – 75.8	25	620	15	5°	1.5	1.3	0.7
26063	60.5 – 92.0	26	740	12	5°	2	1.3	0.5
27063	73.8 – 112	27	900	10	6°	2.5	1.3	0.2
28063	92.3 – 140	28	1200	8	6°	2.5	1.5	0.2
29063	114 – 173	29	1400	6	Specifications available on request			
30063	145 – 220	30	1800	5				
31063	172 – 261	31	2200	4				
32063	217 - 330	32	2600	3				

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