



FLANN MICROWAVE

Variable Attenuators

Series 080

Features

- **0 dB – 20 dB Attenuation**
- **VSWR Better than 1.10:1**
- **Models from 2.6 GHz to 220 GHz**

The Flann Series 080 of Variable Attenuators is suitable for applications where calibrated attenuators are not required, such as level-setting or padding.



Model 17080

Models 11A080 to 20080 inclusive

Each unit consists of a length of waveguide with a bearing tube mounted on an external H plane wall. Passing through the tube is a close-fitting plunger which carries, and varies the position of, the attenuation element within the waveguide. A locking screw is provided to secure the element at the required position. The attenuating elements are ni-chromed glass.

Model 22080 to 24080

These units are similar to the above but provided with a threaded drive mechanism to the attenuating element and a locking ring for securing at a fixed position. The attenuating element is of ni-chrome evaporated on glass.

Model 25080 to 30080

On these units the attenuating element of ni-chromed glass is introduced into the waveguide via a slot in the broad wall. Vane position is varied by a threaded drive mechanism.

Related Products

Series 020: Calibrate Variable Attenuators

Series 081: Fixed Attenuators

Custom Design

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

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**Specifications**

Model	Frequency Range	Waveguide			Maximum Insertion loss (dB)	VSWR (better than)	Maximum Power (W)
		WG	R	WR			
11A080	3.22 – 4.90	11A	40	229	0.2	1.1	2
12080	3.94 – 5.99	12	48	187	0.2	1.1	2
13080	4.64 – 7.05	13	58	159	0.2	1.1	1.5
14080	5.38 – 8.18	14	70	137	0.2	1.1	1
15080	6.58 – 10.0	15	84	112	0.2	1.1	1
16080	8.20 – 12.5	16	100	90	0.2	1.1	0.75
17080	9.84 – 15.0	17	120	75	0.2	1.1	0.75
18080	11.9 – 18.0	18	140	62	0.3	1.1	0.75
19080	14.5 – 22.0	19	180	51	0.3	1.1	0.6
20080	17.6 – 26.7	20	220	42	0.3	1.1	0.5
21080	21.7 – 33.0	21	260	34	0.35	1.1	0.5
22080	26.4 – 40.1	22	320	28	0.4	1.1	0.4
23080	33.0 – 50.1	23	400	22	0.6	1.1	0.45
24080	39.3 – 59.7	24	500	19	0.7	1.1	0.38
25080	49.9 – 75.8	25	620	15	0.3	1.1	0.23
26080	60.5 – 92.0	26	740	12	0.4	1.1	0.15
27080	73.8 – 112	27	900	10	0.5	1.1	0.11
28080	92.3 – 140	28	1200	7	0.7	1.13	0.08
29080	114 – 173	29	1400	6	0.8	1.16	0.05
30080	145 – 220	30	1800	5	1.2	1.22	0.03

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