

The Flann Series 710 of Waveguide Verification Kits enables VNA users to verify system measurement performance. Each Verification Kit consists of five 2-port mismatch waveguide sections and two precision fixed attenuators.

Each mismatch waveguide section is highly accurate, stable and provides a precisely quantifiable VSWR that is directly calculable from its physical dimensions. The mismatches, nominally quarter wavelength long, are manufactured to the same exacting standard as our Metrology Calibration Kit Components.

The fixed attenuator designs are based on those of our extremely stable directional couplers, offering a very flat attenuation response over the full waveguide frequency band.

All components are fitted with modified flanges featuring precision dowels to ensure enhanced alignment and repeatability.

Each kit contains the following components: -

- Mismatch, 2 Port 1.00: 1
- Mismatch, 2 Port 1.10: 1
- Mismatch, 2 Port 1.25: 1
- Mismatch, 2 Port 1.50: 1
- Mismatch, 2 Port 2.00: 1
- Precision Fixed Attenuator 20 dB
- Precision Fixed Attenuator 40 dB

Kits are supplied in a fitted hardwood case complete with the necessary connection hardware and tools.



Model 30710-AB



Specifications

Model	Frequency Range (GHz)	Waveguide			Waveguide Aperture Tolerance of Mismatches Gold (microns)	Waveguide Aperture Tolerance of Mismatches Silver (microns)
		WG	R	WR		
06710 / 711	1.14 - 1.73	6	14	650	35	65
08710 / 711	1.72 - 2.61	8	22	430	25	45
10710 / 711	2.60 - 3.95	10	32	284	15	40
11A710 / 711	3.22 - 4.90	11A	40	229	15	30
12710 / 711	3.94 - 5.99	12	48	187	10	30
13710 / 711	4.64 - 7.05	13	58	159	10	20
14710 / 711	5.38 - 8.18	14	70	137	7	20
15710 / 711	6.58 - 10.0	15	84	112	7	15
16710 / 711	8.20 - 12.5	16	100	90	5	15
17710 / 711	9.84 - 15.0	17	120	75	5	10
18710 / 711	11.9 - 18.0	18	140	62	5	10
19710 / 711	14.5 - 22.0	19	180	51	5	10
20710 / 711	17.6 - 26.7	20	220	42	5	10
22710 / 711	26.4 - 40.1	22	320	28	5	10
23710 / 711	33.0 - 50.1	23	400	22	5	10
24710 / 711	39.3 - 59.7	24	500	19	5	10
25710 / 711	49.9 - 75.8	25	620	15	5	10
26710 / 711	60.5 - 92.0	26	740	12	5	10
27710 / 711	73.8 - 112.0	27	900	10	5	10

MODELS AVAILABLE UP TO 500GHz. Details on request.

Ordering Information

WG	Model	-	Optional
06 To 27	711 Precision 710 Metrology		