

Compact Rotary Vane Attenuator Series 114

Features



- 3% accuracy (0-40dB)
- 5% accuracy (41-50dB)
- Attenuation Range: 0 dB to 50 dB
- Direct reading
- 49.9 GHz to 112 GHz
- WG25, WG26 and WG27

The Flann 114 RVA is an commercial grade, direct reading, rotary vane attenuator for use in millimeter wave test sets.

This attenuator has a calibrated dial which indicates the attenuation value directly.

A precision 10 turn, 75 mm diameter helical drum scale provides high resolution and discrimination of the drum scale over a 0 dB to 40 dB attenuation range.

In addition, provides reference only measurements up to 60 dB.

Phase variation over the attenuation range is negligible.

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Choking of the rotating joints is employed to minimise RF leakage whilst sound mechanical design ensures the instruments are free from backlash.

By using high value attenuation markings on the scale, symmetrically positioned about the maximum attenuation position, the user is able to verify the attenuation characteristic alignment which gives the highest confidence in the accuracy of subsequent measurements.

Custom Built Units:-

Combined rotary vane attenuator and rotary vane phase changer units are also available; these units are usually coupled at the circular waveguide section thereby minimising mismatch errors at low attenuation settings.

Specifications: All ranges 0 dB to 50 dB with the following accuracy:

	WG25 to WG27	WG25 - WG27
Attenuation accuracy	0 dB to 40 dB	40 dB to 50 dB
	0.1 dB or 3% whichever is greater	2.5 dB max

Operating temperature range: +5°C to +35°C

Other waveguide sizes available, please [contact](#) the sales team.

Model	Frequency Range (GHz)	Waveguide		VSWR (better than)	Maximum Insertion Loss (dB)	Maximum Power (Watts)	Dimensions (mm)					Weight (kg)	
		WG	WM R				WR	A	B	C	D		E
25114	49.9 - 75.8	25	-	620 15	1.2	1.0	0.15	100	116	72	45	30	0.735
26114	60.5 - 92.0	26	-	740 12	1.2	1.3	0.1	89	116	72	45	30	0.735

27114 73.8 -112.0 27 - 900 10 1.2 1.5 0.07 89 116 72 45 30 0.740