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Flann Microwave 23622-AA

Technical Datasheet: Programmable Rotary Vane Attenuator

Product Overview

The **Flann Microwave 23622-AA** is a high-precision, programmable rotary vane attenuator (RVA) engineered for demanding waveguide systems. Built for the WG23 (WR22) waveguide band, it provides highly accurate, continuous attenuation across the Q-band frequency range. Its design utilizes a rotating resistive vane configuration to ensure a frequency-independent attenuation profile, low insertion loss, and exceptionally stable phase performance.

Core Performance & Features

- **Frequency Range:** Full coverage of the 33.0 GHz to 50.1 GHz spectrum (WG23 / WR22 waveguide).
- **Attenuation Range:** Continuously variable from 0 dB to 60 dB. Extends up to 85 dB in specialized Steps Mode when linked with compatible Flann control hardware.
- **High Accuracy & Repeatability:** Features a 1% attenuation accuracy (0.1 dB variation max) combined with outstanding repeatability (typically 0.002 dB to 0.008 dB).
- **Frequency-Independent Flatness:** Central rotating resistive vane follows theoretical attenuation geometry, yielding an exceptionally flat response across the band.
- **Negligible Phase Variation:** Minimizes phase shift variation during attenuation changes, vital for phase-coherent test applications.
- **Low Insertion Loss & VSWR:** Precision-engineered transitions ensure a low 1.15 VSWR and minimal insertion loss (1 dB maximum).

Control & Mechanical Specifications

- **Automation Ready:** Integrated motorized drive architecture seamlessly interfaces with external instrumentation via Flann Control Processors (e.g., CP2020 / CP2021).
- **Interface Bus:** Supports standard IEEE-488.2 (GPIB), USB, or Ethernet bus configurations based on the companion controller framework.
- **Direct Manual Readout:** Outfitted with a physical direct-reading dB scale or digital display layout for quick inspection, validation, and calibration tracking.

Technical Specifications Reference

Parameter	Specification
Waveguide Band	WG23 / WR22
Frequency Range	33.0 GHz to 50.1 GHz (Q-Band)
Standard Attenuation Range	0 dB to 60 dB
Extended Attenuation Range	Up to 85 dB (with Steps Mode)
Attenuation Accuracy	1% of reading or 0.1 dB (whichever is greater)
Maximum VSWR	1.15
Maximum Insertion Loss	1.0 dB
Typical Repeatability	0.002 dB to 0.008 dB

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