Voltage to Frequency Converter

The Quantum Detectors Voltage to Frequency Converter allows analogue signals to be accurately translated into frequency space thereby facilitating easy scaling. Using this Voltage to Frequency Converter it is possible to build up a highly accurate, linear analogue measurement system using minimal components. The two channel Voltage to Frequency Converter is housed in an industry standard NIM format unit and has a number of different input ranges.

Benefits

High linearity
Low Noise
No systemic artefacts in the noise spectrum

Features

Output Frequency	0 → 1MHz
Input Voltage and Impedance	0 → 10V or 0 → -10V 20KΩ 0 → 5V or 0 → -5V 10KΩ 0 → 2.5V or 0 → -2.5V 5KΩ
Linearity Error	±0.005% MAX
Calibration Error	±0.01% MAX
Temperature Drift	Gain ±30PPM/°c MAX Offset ±25µV/°c MAX
Response Time	One period of new output frequency +0.5µs
Crosstalk	A ←→ B None
Independent Channels	2
Format	Single width NIM unit

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