

V-F CONVERTER ($\pm 10V/5MHz$)

《ABSTRACT》

- ◆ This module converts the input voltage to frequency.
- ◆ The input and output signal is based on NIM standard of AEC. (Atomic Energy Commission US)
- ◆ The input voltage range is 0-10V (plus, minus selectable).
- ◆ The GAIN is selectable by x1, x5, x10 switches and fine tuning variable resistor.
- ◆ The range of output frequency is 0-6MHz pulse according to the input voltage 0-fullscale.
- ◆ This module has 2 outputs, MONITOR and FREQUENCY. MON. OUT outputs the input voltage. FRQ. OUT outputs the NIM level pulse which have a frequency in proportion to the input voltage.

《Specifications》

Input characteristics ;

- ◇ Impedance : 100k Ω
- ◇ Voltage : 0~ $\pm 10V$ max / with Polarity switch
- ◇ Threshold level : Approx. -40mV ~ -750mV (with check terminal)
- ◇ GAIN : x1 (0.9~1.1), x5 (4.3~6.3), x10 (9.1~11.1) / with fine tuning variable resistor

Output characteristics ;

- ◇ MONITOR : Input voltage x GAIN range
- ◇ FREQUENCY : NIM output
- ◇ Output frequency : 0~5MHz F.S

- ◆ The input and output connector : Standard LEMO connector.
- ◆ Packaging : NIM standard single-width module.
- ◆ Consumption current
 - 5V : Approx. 85mA
 - +5V : Approx. 100mA
 - 24V : Approx. 41mA
 - +24V : Approx. 65mA



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