

V-F CONVERTER ( $\pm 20\text{V}/5\text{MHz}$ )

## 《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 0-20V (plus, minus selectable).
- ◆ The GAIN is selectable by x0.5, x1, x2, x5, x10 switches.
- ◆ The range of output frequency is 0-5MHz 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 and TTL level pulse which have a frequency in proportion to the input voltage.

## 《Specifications》

**Input characteristics ;**

- ◇ Impedance : 200  $\Omega$
- ◇ Voltage : 0 ~  $\pm 20\text{V}$  max / with Polarity switch
- ◇ GAIN : x0.5, x1, x2, x5, x10 times / fine tuning available by internal variable resistor

**Output characteristics ;**

- ◇ MONITOR : input voltage x GAIN range
- ◇ FREQUENCY : TTL (50  $\Omega$  drive available), NIM
- ◇ Frequency : 0 ~ 5MHz F.S
- ◇ Linearity : 0.1% max (input voltage  $\geq$  F.S voltage x 0.01)
- ◇ Response : Approx. 10  $\mu\text{s}$  (input voltage vs output frequency)

- ◆ The input and output connector : Standard LEMO connector.
- ◆ Packaging : NIM standard single-width module.

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