

## QUAD CF DISCRIMINATOR



### «ABSTRACT»

- ◆ This module is adopted the constant fraction method using the latest technology because the time walk caused by the difference of wave height value must be minimized for the high speed constant wave height discriminated value of PMT etc.

### «Specifications»

#### Input characteristics ;

- ◆ Impedance : 50  $\Omega$
- ◆ Threshold voltage :  $-35\text{mV} \sim -800\text{mV}$   
(It can adjust by the variable resistor on front panel.)
- ◆ Maximum frequency : 55MHz
- ◆ VETO : At  $-450\text{mV}$  it inhibits all output signals.

#### Output characteristics ;

- ◆ Level : Approx.  $-800\text{mV}$
- ◆ Pulse width :  $6\text{nS} \sim 100\text{nS}$   
(It can adjust by the variable resistor on front panel.)
- ◆ Risetime : Approx. 1.2nS
- ◆ Falltime : Approx. 0.8nS
- ◆ Time walk : 0.1nS (half-value width)  
(input signal at  $-50\text{mV} \sim -800\text{mV}$ )

- ◆ Because it is adopted the updating circuit for input signal, There is nothing of the multipath output signal for the input signal of the large pulse width.

- ◆ Input and output connector : Standard LEMO connector.

- ◆ Packaging : NIM standard single-width module.

- ◆ Consumption current
  - $-6\text{V}$  : 1100mA
  - $+12\text{V}$  : 140mA
  - $-12\text{V}$  : 300mA



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