

Front panel



Rear panel

GeV γ -1370 Charge to Time Converter with Discriminator

Features

This module is 16 independent Charge to Time Converter with Non-updating Discriminator
Leading edge type for physic experiment.
The module accepts negative polarity signals and provided NIM out, Linear out, 2 OR16 out in the front and ECL out in the rear panel.

Specifications

16 input negative polarity DC input 50 Ω
Threshold Level(Vth1) $-5\text{mV} \sim -600\text{mV}$
Threshold Level(Vth2) $+5\text{mV} \sim +600\text{mV}$
Minimum pulse width is about 10nsec when 10mV input of Model 417(pocket pulsar).

Output 1 NIM out, 1 Linear out, 1 ECL out.

Maximum rate >100MHz

Propagation (input-output) delay time <20nsec

Threshold monitoring can accept all channels.
Threshold (Vth1) is controlled with potentiometer in the front panel.

Threshold (Vth2), Integrate time and PZC is controlled with potentiometer in the side panel.

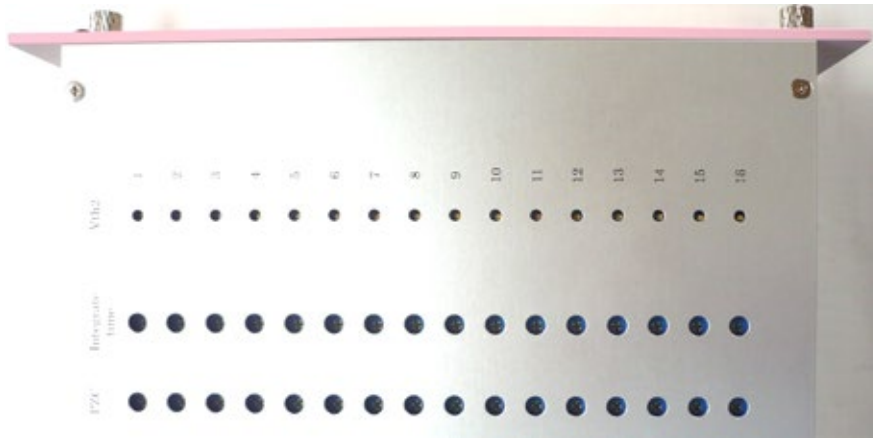
Packaging NIM #2 with LEMO 00 connectors & 34 pin header.

Power requirement $-6\text{V } 3.8\text{A}$, $-12\text{V } 40\text{mA}$
 $+6\text{V } 800\text{mA}$, $+12\text{V } 350\text{mA}$

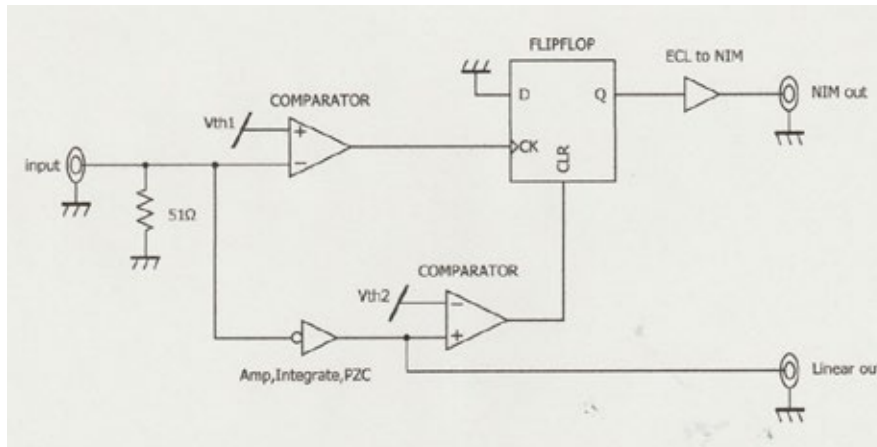
Weight 4.0kgs

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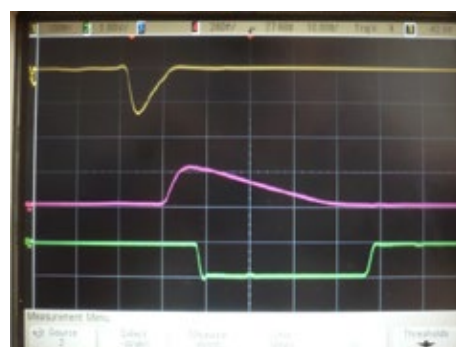
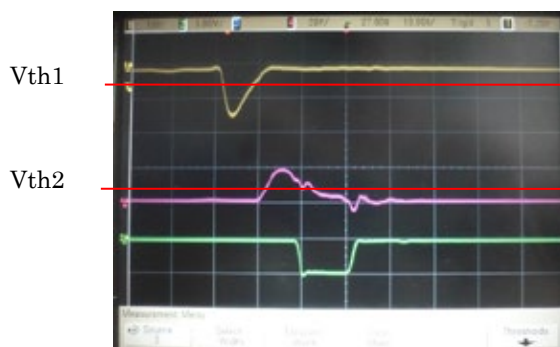
Side panel



• Blok Figure



• Example of Waveform (Vth1, Vth2 = 5mV)



Range

Input(yellow) : 10mV
 Linear out(pink) : 20mV
 NIM out(green) : 1V
 T : 10ns

Input(yellow) : 100mV
 Linear out(pink) : 200mV
 NIM out(green) : 1V
 T : 10ns