

A1008

A1008 have equipped with an 8-channel spectroscopic amplifier with a NIM 1 width. The waveform shaping uses an active filter method, approaching ideal Gaussian shaping. A discrete amplifier circuit using the newest low-noise FET is using, suppressing input noise characteristics to 4μV or less. It also has an active gated baseline restorer, so it can be used for measurements such as high-count rates. A1008 can achieve excellent resolution and linearity, especially in measurements using HPGe semiconductor detectors.

Features

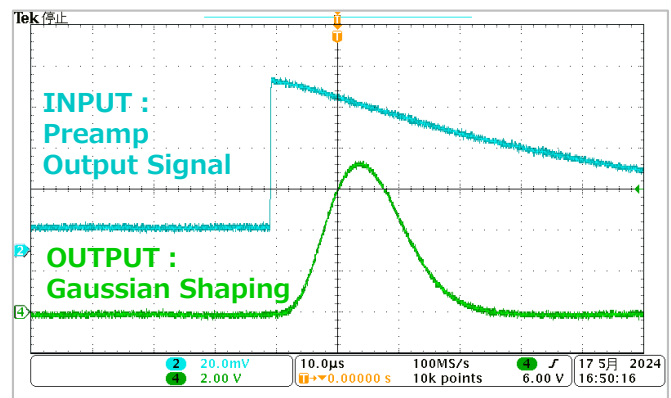
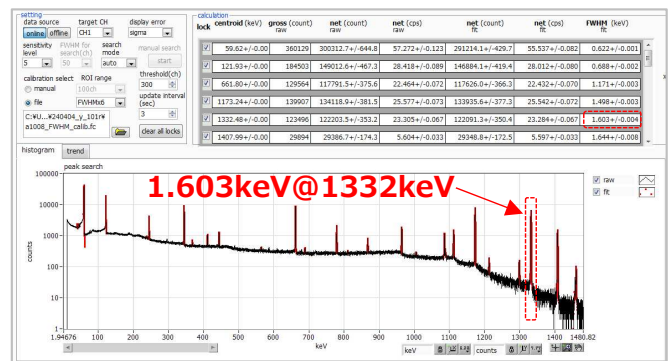
Gain Range	x1~x750
Pulse Shape	Semi Gaussian shaping Peaking Time 2.2τ, Pulse Width 6τ
Noise Characteristic	Input Referred <4μV 2μsST Gain≥100
Integral Nonlinearity	< ±0.05% 2μsST
Baseline Restorer	Active Gated Auto Threshold
High-Rate Characteristic	Peak Spared Maximum 15% case 2μs, input rate 50kcps

Specifications

Input	8channel
Pole	positive/negative for SW on circuit
Attenuate	×0.1/×1.0 select from JUMPER on circuit
CoarseGain	×20/×50/×100/×200/×500 Select from SW on circuit
FineGain	×0.5~×1.5 Select from potentiometer on front panel
PZ ADJ	40μs~∞ Select from potentiometer on front panel
Offset Voltage	±40mV Select from potentiometer on front panel
Shaping Time	0.5/2/6μs Select from SW on circuit
Analog input range	8channel LEMO connector Range : ±1.5 V, Input Impedance : 1 kΩ
Analog output range	8channel LEMO connector Positive Unipolar 0-10V, Output current : 45mA
Preamplifier power Supply	±12V, ±24V, D-sub9 pin Connector
Front	IN : Input LEMO Connector OUT : Output LEMO Connector F.G : Fain Gain Adjust Potentiometer P.Z : Pole Zero Adjust Potentiometer D.C : Offset Voltage Adjust Potentiometer
Back	Preamp Power D-sub9pin Connector
Power consumption	+12V (Max.200mA), -12V (Max.180mA) +24V (Max.220mA), -24V (Max.200mA)
Dimension Weigh	NIM1width 34(W) x 221(H) x 249(D) mm excluded, approximate 980g



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*Images is for illustration purpose.
*Please note that contents may change without prior notice.

TechnoAP Co., Ltd.

2976-15 Mawatari, Hitachinaka, Ibaraki, Japan

Postcode:312-0012 info@techno-ap.com

TEL:+81-29-350-8011 FAX: +81-29-352-9013



<https://www.techno-ap.com>

20241016

