Random Pulse Generator

TechnoAP

APN6001

NIM

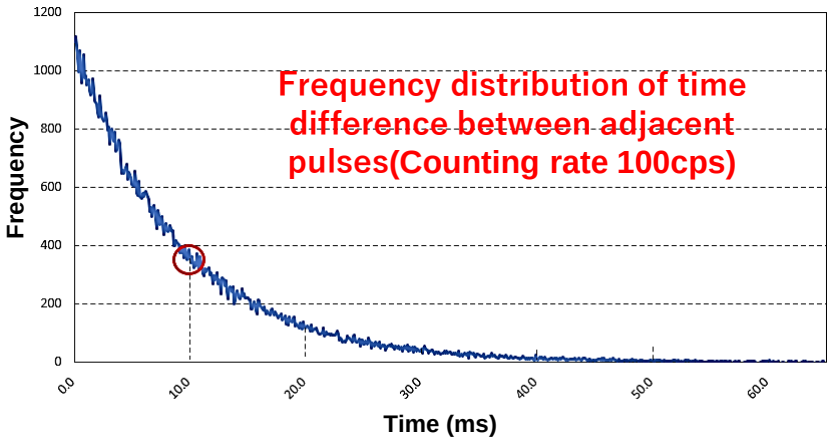
20210409

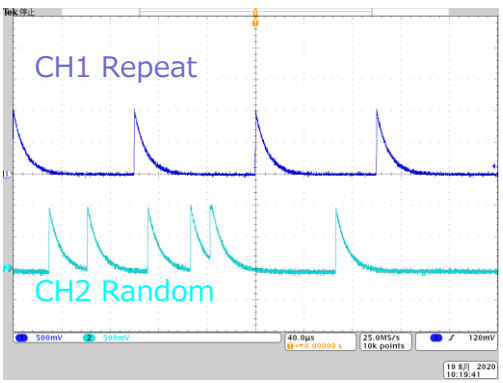
Overview

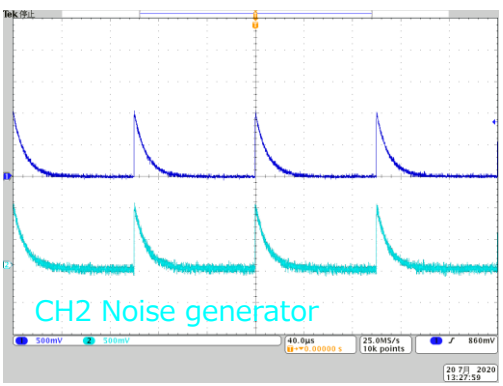
The NIM2 width sized random pulse generator APN6001 uses digital signal processing to generate Decay pulses specific to radiation measurements. A liquid crystal display is provided on the front panel, and any peak value, Risetime, Decay, and period can be set from the front panel.

Features

* Reproduce the stochastic event of Poisson distribution by the exponential random number generation algorithm by the digital method.
* Digital white noise generation algorithm.







Specifications

Count Rate	1CPS - 1MCPS (1Hz - 1MHz)
Mode	Random or Repeat
Random distribution	Poisson distribution
Pulse shape	Tail pulse with adjustable rise and fall time
Offset	0 mV – 1000 mV
Random Noise	0 mV – 122 mV
Delay	10 us – 650 us
Decay	100 ns – 130
Rise time	10 ns – 500 ns (changeable every 10 ns)
Amplitude	±1 mV – 1000 mV
Output Impedance	50 Ω
External trigger	10 kΩ input impedance
Trigger output	1 V pulse, rise 500 ns
Required power	＋12 V / 2 A
Form	NIM 2 width, 6.85 cm (W) x 22.1 cm (H)
Weight	1033 g

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

Web-site

Manufacture of Radiation and Radioactivity measurement devices

TechnoAP Co., Ltd.

2976-15 Mawatari, Hitachinaka-shi, Ibaraki, 312-0012, Japan

☎ +81-29-350-8011

+81-29-352-9013

✉ info@techno-ap.com