

# High-speed preamplifier APG1500

MADE IN JAPAN

## for fast scintillation detectors

APG1500 is a high-speed preamp for scintillation detectors. It has the property that the rise time is very fast at 20 nanosecond or less. It is the most suitable preamp for the application that required high-count, such as LaBr<sub>3</sub>(Ce) scintillation detector etc.



External

**1CH preamplifier  
for FAST scintillation**

### Specifications

Input	Rise time	20 nanosecond or less
	Fall time	around 50 microsecond
	Noise characteristic	100 $\mu$ Vrms or less
	Integral non-linearity	$\pm 0.1\%$ (typ.) or less
	Count rate	1Mcps and over
	Connector	LEMO 00 series connector
	input capacitance	Switchable 220pF / 1000 pF / 2200 pF by substrate rotary switch
	Test pulse	Input impedance 50 $\Omega$ , LEMO 00 series connector
	Power supply	D-Sub 9pin connector (NIM-standard)
Output	Output impedance	50 $\Omega$
	Connector	LEMO 00 series connector
External dimensions, Weight	70mm(W) x 20mm(H) x 75mm(D) *without connector, 165g	
Environmental condition	Operating temperature 0 ~ 40 °C, No dew condensation	
Accessory	Power cable with D-Sub 9 pin connector, Certificate for examination and test	

\*Images is for illustration purpose.

\*Please note that contents may change without prior notice.

# TechnoAP

Design and fabrication of electronic circuit associated with measurement control and radiation measurement

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