CNPV-ENAI-D50H50VD01

NaI scintillator Detector

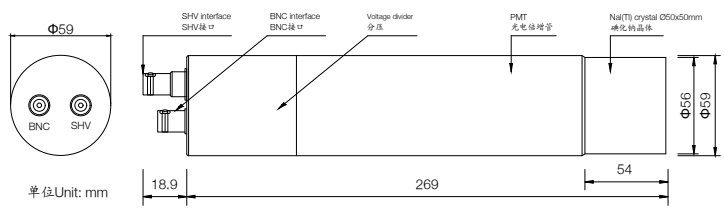
1.Overview

The detector consists of an NaI crystal, a photomultiplier tube, a voltage divider circuit, and various other components. The NaI detector, known for its excellent energy resolution, low radiation background, and compact structure, is widely used in various fields such us nuclear physics experiments, industrial measurement and control, and environmental monitoring,it has extremely high reliability.

2.Main technical parameters

- Power inut ..... 0 ~ +1500V
- Dimensions of the scintillator ..... Φ50 × 50 mm
- Interface Type ..... BNC、SHV
- Energy resolution ..... ≤7.5% @ 662keV（^{137}Cs）
- Operating temperature ..... +5℃ ~ +40℃
- Storage temperature ..... -20℃ ~ +50℃
- Storage humidity ..... 10% - 85%RH（Non-condensation）

3.Outline Dimensional Drawing

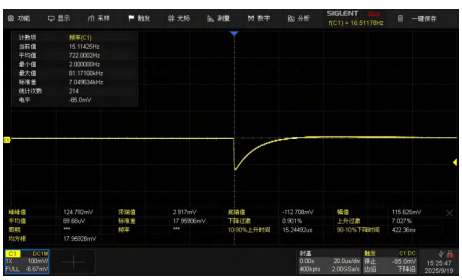


Interface Definition

serial number	Interface	Definition
1	SHV	Positive polarity high voltage input
2	BNC	Negative polarity signal output

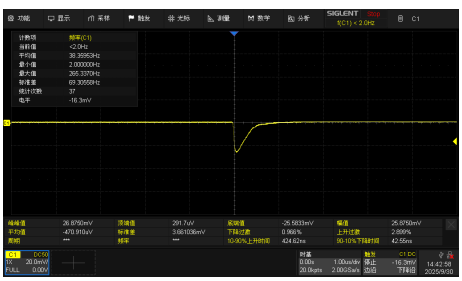
4.Waveform Test/ Energy Resolution Test

● Waveform test



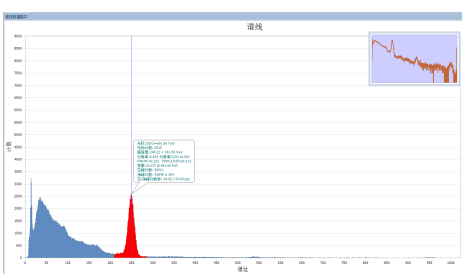
Oscilloscope input impedance1MΩ（450V）

● Waveform test



Oscilloscope input impedance 50Ω（450V）

● Spectral test



Power input: 450V Radioactive source: Cs137 @661.66keV Energy resolution: 6.539%

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