

1. Overview



EP-AP6113 gas detector Preamplifier weak current front discharge, the use of double electromagnetic shielding and very low noise multi-level noise reduction power meter, to achieve 200fA weak current resolution, suitable for thickness gauge ionization chamber detectors and other gas detectors signal readout occasions.

2. Functional indicators

- ▶ 1 Specifically adapted to amplify the weak current of gas detectors
- ▶ 2 Extremely low noise
- ▶ 3 Input isolation island protection
- ▶ 4 The power supply conforms to NIM chassis standards

3. Performance parameter

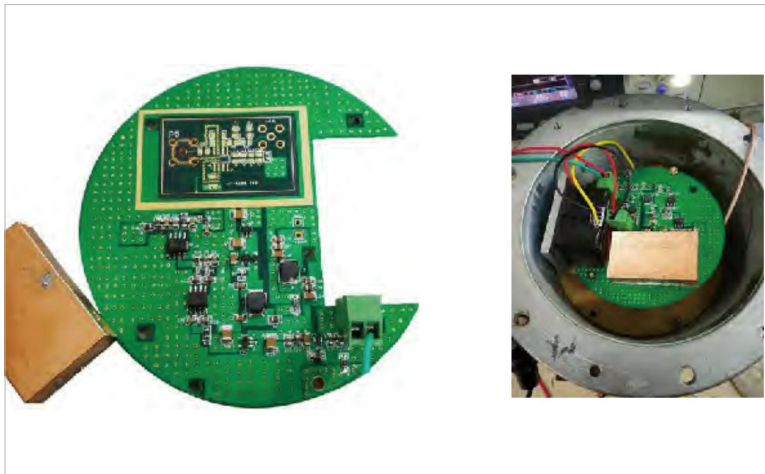
- ▶ Dimensions 33Φ×18H mm after adding SMA connector
- ▶ Power supply ±12V Dual power input
- ▶ Output Signal Dynamic Range ±10V MAX
- ▶ Output signal polarity opposite to the input signal
- ▶ Signal Gain 200mV/MeV
- ▶ Rising time <60ns
- ▶ Signal output Exponential pulse signal
- ▶ Input stage Built-in field effect tube

4. Electromechanical interface

- ▶ INPUT Detector Connection Port
- ▶ HV High voltage input port (SHV)
- ▶ POWER DC power input port (DB9/NIM standard)
- ▶ OUT Voltage output signal

5. Performance testing

● Figure 1 Device for measuring ¹³⁷Cs radioactive sources in gas ionization chambers



● Figure 2 Preamplifier output signal

