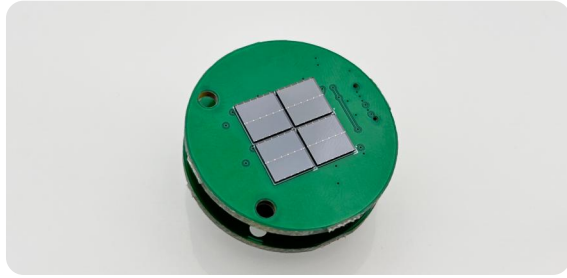


1. Overview

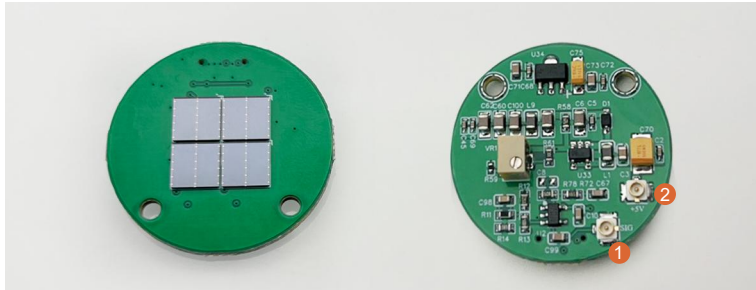


The 2×2-FJ60035 spectrum probe module consists of a SiPM array and a SiPM readout module. The SiPM array consists of four independent FJ60035 sensors arranged in a 2×2 array, connected via board-to-board connectors. The SiPM readout module integrates power supply, summing circuit, and amplification circuitry.

2. Main technical parameters

- ▶ SiPM Model ONSEMI FJ60035, 4chip
- ▶ SiPM Dimensions Active area of single chip 6.07 mm × 6.07 mm
- ▶ SiPM operating voltage range +24 V to +31 V
- ▶ Power supply +5 V
- ▶ Overall Dimensions about Φ30 mm × 14 mm
- ▶ Power Consumption less than 150 mW

3. Outline Dimension



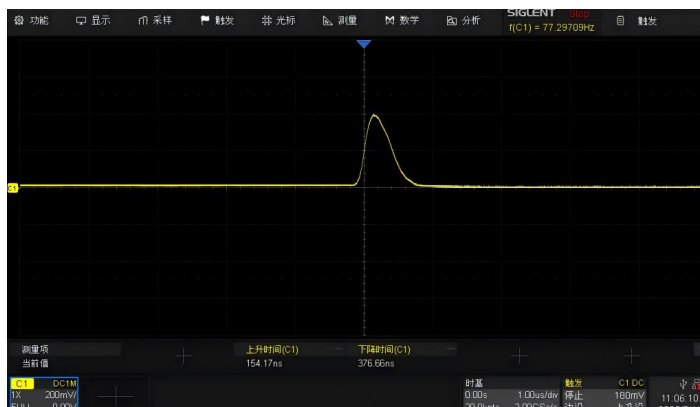
Pin definitions

Pin No.	Connection	Description
1	Signal output	Output positive amplification signal, less than +5V
2	Power supply	+5V power input

4. Test

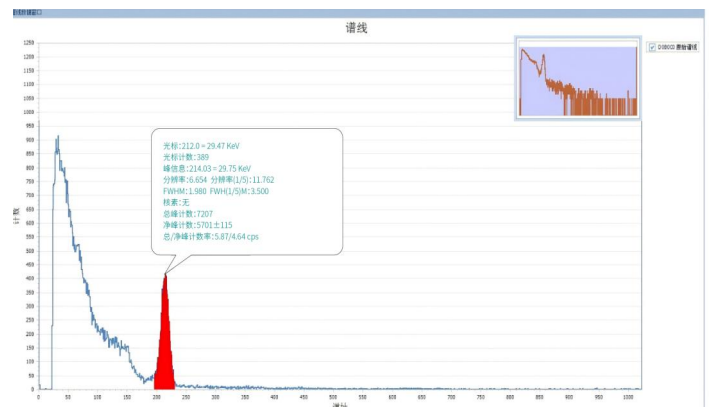
The energy spectrum probe module is coupled with a 1-inch NaI crystal, and a +28 V bias voltage is applied. The input impedance of the oscilloscope is 1MΩ. Test the waveform and energy spectrum output.

• Waveform Test



Output signal waveform, the oscilloscope input impedance 1MΩ

• Spectrum test



Energy Resolution: 6.65% @ 662keV-Cs137