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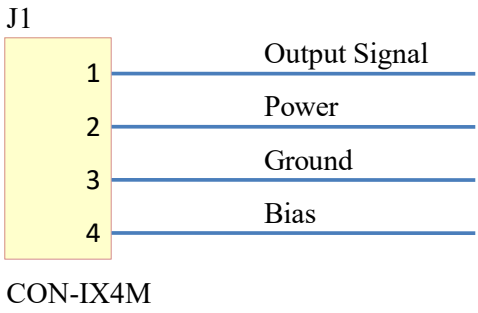
Product Data Sheet

3cc CsI Gamma Sensor Module (P/N:001-0100-000)

Description

SemeaTech's 3cc Cesium Iodine Gamma Sensor Module consists of a cesium iodide crystal, a photodiode, and a high-gain preamplifier that can be used to measure X and γ radiation from 50keV to 3MeV. It features high sensitivity and an instant response time (of about a second) to a very minor change of X and γ (0.01 μSv/h).

The sensor is housed in a 45x24x18±0.5mm metal housing with a cable of approx. 55mm as the connection interface. The connector is a 4-pin MOLEX PicoBlade 1.25mm (.049") connector (reference Molex connector, part no. 51021-0400). Pin assignments are shown below:

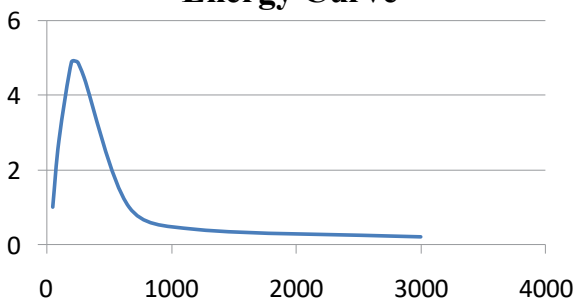


Product Dimensions

Electric Characteristics

Output: a full width at half maximum of approximately 60us quasi-Gaussian pulse
Power: 2.7V ~ 3.3V
Bias: 30V recommended, maximum 50V
Noise Level: 80mV±15mV at room temperature

Energy Curve



Detection Performance

Energy Detection Range: 50keV to 3MeV
Response Time: Typical 1 second
Signal amplitude: 0.9V±0.1V @662keV
Detection efficiency: 25000±20% count/uSv @662keV
Noise Temperature Effect: Refer to PIN Diode Characteristics
Working Temperature: -20℃ to 50℃
Life Span: 5 years