

This plug on module comes with the preamplifier and voltage divider. The module is used with the Scintillation detector. It can easily be mounted on the scintillation detector by simply inserting the 14 pins of the scintillation detector into the device base. The preamplifier used with the voltage divider is used to reduce the signal distortion of detected gamma rays.



Features:

- Highly anodized aluminium enclosure
- RoHS compliant
- Can be mounted directly on a 14-pin base Detector
- Lockable cable connector
- Positive / Negative High Voltage operation
- SMA connector for signal
- MHV connector for High Voltage input supply
- Gain and focus adjustment
- Optimized to work with different standard 2-inch and 3-inch detectors with 14-pin PMT available..

Voltage Divider Specification:

- Maximum Input voltage: 1500V
- Typical operating power requirement: 800VDC to 1200VDC at <1mA (can be higher or lower depending upon the type of PMT Tube)
- Anode Output: AC Coupled
- Total divider Resistance: 4.3M Ω (at a minimum gain)
- Anode Load Resistor: 1M Ω
- HV Gain range Adjustment: Varies with PMT applied HV between 82% and 100% of applied voltage.
- High Voltage Connector: Miniature High Voltage Connector
- Signal Connector: Sub Miniature version A type Connector
- Voltage Ratio cathode to dynode: 1 is 3R
- Operating Temperature: -20°C to +60°C
- Conformal coated PCBs to protect from malfunctioning due to humidity
- Preamplifier power connector: Lemo connector or equivalent.
- Supplied preamplifier power cable: 10 feet with Amphenol (2Pin) Connector

Preamplifier Specification:

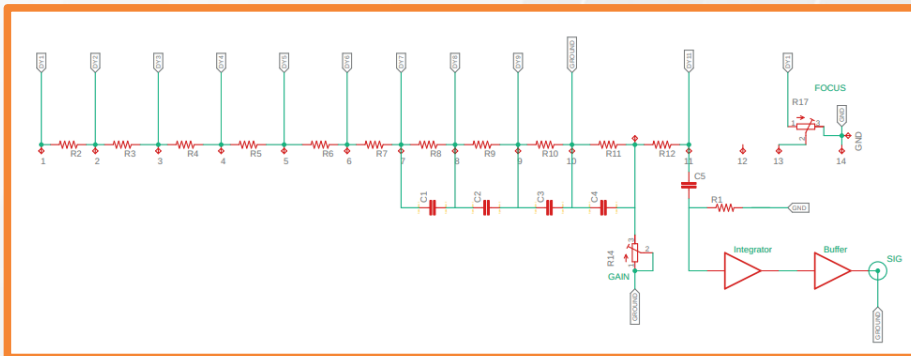
- High Input Impedance
- Nominal Charge Sensitivity: 2.66mV/pC
- Decay time constant: 50 μ s (other time constants are possible)
- Power Requirement: +12VDC / -12VDC at less than 10mA.

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- Rise Time (Square Input): -10nS .
- Cable Driving Capability: <750 feet
- Output Impedance: 50 Ohms
- Charge rate capacity over $6\mu\text{S}$

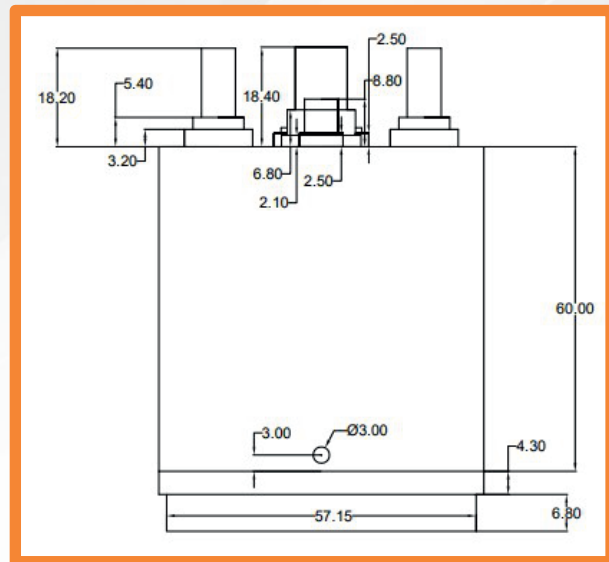
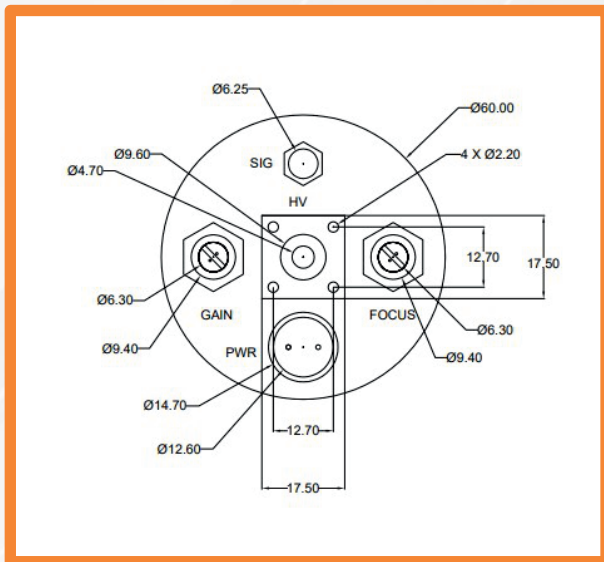
PA Schematic:



Options:

- Available with negative High Voltage
- High voltage connector: SHV or MHV
- Signal connector: Other types available upon request

Mechanical Specifications:



Product improvement is a continuous process. Please contact Yelsons marketing team for latest updates.

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