

## Plug on Base Data Sheet

### Alpha Spectra, Inc.

The Plug on Base, or POB-14, is a suitable interface between the standard 14 pin base and the charge sensitive preamp. The ASI plug on base may be used with our standard 14 pin base scintillation detectors.

The base includes:

- SHV high voltage input connector
- BNC signal output
- High voltage gain adjustment
- Cathode to first dynode focus adjustment.

The POB 14 is easily installed onto a 14 pin base by carefully aligning the keyway to its proper orientation and with slight pressure inserting the pins into the socket receptacle.

Options include:

- 1) High impedance total resistance for low background counting applications. This option ensures low current draw in battery operated systems.
- 2) Preamp included in POB-14 assembly.
- 3) Custom connectors as required.
- 4) Externally decoupled signal.

The POB-14 is constructed with a printed circuit board and discrete components. The POB-14 is packaged in a brushed aluminum housing that is easily cleaned with a damp cloth.

Typical applications include:

- Laboratory Facilities
- Educational Facilities
- Survey Instruments/Hand Held Probes
- Industrial Process Measurements
- Multiple Detector Systems.

We will be glad to discuss your custom application.



POB-14 shown.

## Alpha Spectra, Inc. Accessory Specifications

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<b>Detector Accessory:</b>	POB-14
Dimensions:	2 1/8" x 2 1/8"
Housing:	Aluminum
Connectors:	SHV, Positive High Voltage (applied up to +1500 VDC) BNC, Signal Out Options include: C-type and MHV. Contact us if your requirement needs different connectors. 14 pin connector
Adjustments:	Gain potentiometer High Voltage
Divider Impedance:	5 Meg-ohm (standard)
Signal Out:	Decoupled at the anode
Temperature Range:	-20°C to 50°C
Options:	Preamp

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**Please contact Alpha Spectra, Inc. so that our design team may help you design a custom detector configuration for your application.**

**Alpha Spectra has manufactured over 150,000 detectors in becoming the world's second largest producer of NaI(Tl) scintillation crystals. We are proud of the manner in which our staff has worked together in developing a technology-based company with world class expertise.**

**Alpha Spectra, Inc. is the only American-owned company in the industry that has its own purification and growth processes. Our manufacturing process begins with exceptionally clean starting material. This material is processed using a growth technique that has been developed in house. Our high-quality detectors are assembled utilizing techniques that have been developed with over 100 years of combined working experience.**

**Contact Alpha Spectra, Inc. for your scintillation detector requirements and be assured that you will get personal attention.**

