



The EP tube base series is an integrated electronic module specifically designed for PMT (photomultiplier tube) light detectors or scintillation detectors composed of PMT and scintillators. The module is based on a 14-pin PMT socket (HPK: E678-14W) and can provide different configurations under the same form factor to meet various application requirements. Users can choose voltage dividers, preamplifiers, and built-in high voltage supplies according to their needs. With flexible mode configurations and easy operation, it can be used to quickly build various photon counting and nuclear radiation measurement systems when matched with corresponding PMT or scintillation detectors.

EPXXX	DIV	PREAMP	HV	PMT	OUT
Product model	Voltage Divider Selection	Preamplifier selection	HV Selection	PMT Model Selection	Output signal selection

a Types of Voltage Dividers

P Positive high voltage mode, suitable for the majority of pulse mode measurements.
N Negative high voltage mode, when using DC coupling in the module, requires the selection of a negative high voltage mode voltage divider.

b Type of preamplifier

N Without preamplifiers, suitable for situations where external preamplifiers or built-in preamplifier in subsequent electronic systems are used.
C Charge-sensitive positive pulse output preamplifier, default pulse width 50us. If the customer requires a pulse width of 2us, please specify when placing the order.

c High voltage

P Built-in positive high voltages, +30V ~ +1500V & 1mA, with built-in potentiometer control and high voltage test point.
N Built-in negative high voltages, -30V ~ -1500V & 1mA, with built-in potentiometer control and high voltage test point.
E External High Voltage

d PMT model

- 1 R6231/CR173
- 2 R6233/CR160
- 3 ET9266KB/CR105-05
- 4 R877
- 5 R1307/CR119
- 6 Other designated models PMT

e Output method

- A** AC-coupled output
- D** DC-coupled output
- N** Not applicable

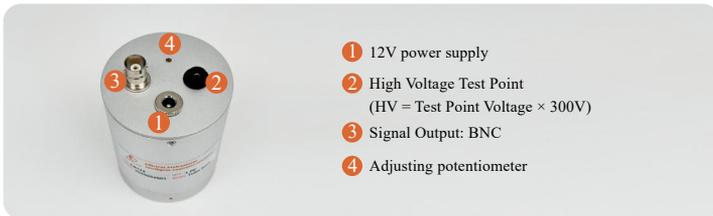
f Dimension and Weight

Instrument size(host): Ø60 mm × H75 mm
 Instrument weight(host): 0.2 kg

(Note: the output coupling method should be selected only when there is no amplifier and the anode output directly. In cases where there is an amplifier, the output is always DC-coupled, selecting "N"

Input and output interfaces

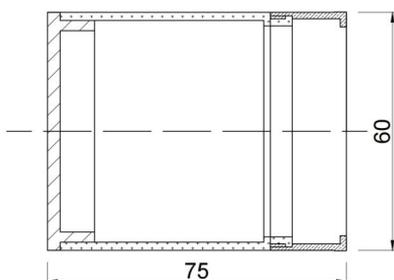
High voltage divider socket



Divider socket



Drawing



未装螺纹套的效果
单位Unit: mm

Appendix 1: The Relationship between high voltage values and voltages at high voltage test point.

