

Specifications

Mechanical

- Maximum diameter: 0.68 cm
- Maximum overall length: 12.4 cm
- Connector type: 10.2 cm pigtail lead
- Net weight: 0.01 kg

Material

- Outer shell: 304 Stainless Steel
- Insulation: Alumina ceramic
- Neutron sensitive material: Helium-3
- Fill pressure: 40 atm

Capacitance

- 9 pf (detector only)

Resistance @ 25°C

- 10^{12} ohms (minimum)

Maximum Ratings

- Voltage: 3000 V
- Temperature (note 1): 150°C

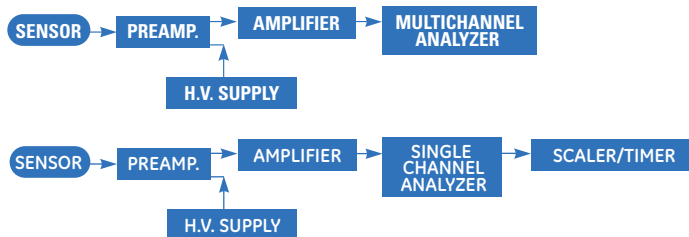
Operating Characteristics (note 2)

- Thermal neutron sensitivity (unperturbed): 2.6 cps/nv in 0 R/hr
- Thermal neutron flux range: to 5×10^6 nv
- Voltage range: See plateau curve
- Resolution (FWHM): See spectrum
- Output pulse characteristics (average)
 - Charge output: 2.7×10^{-14} coulombs @ 2050 V

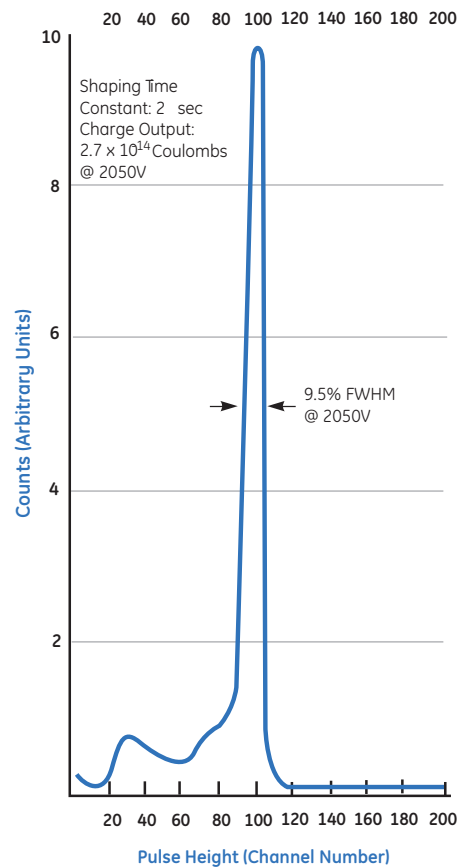
Note 1: Available with 200°C rating on special order.

Note 2: Approximate values may vary with gamma background and associated electronics.

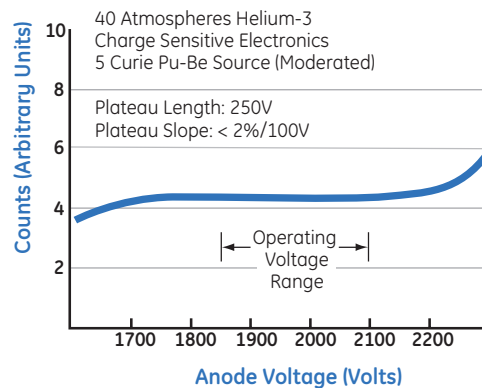
Typical Counting Arrangement



40 Atmosphere Helium-3 5 Curie Pu-Be Source (Moderated)



Typical Plateau Curve



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