

## Sales Specifications

**Model Number:** SA- P4-0813-108

**Rev:** Draft

9/30/2009

HE-3 NEUTRON DETECTOR - PROPORTIONAL COUNTER

### Mechanical

Maximum diameter: ..... SEE DRAWING  
Maximum overall length: ..... SEE DRAWING  
Connector Type: .....

### Material

Body Material: ..... 1100 Aluminum  
Connector Material: ..... BRASS, SILVER PLATED  
Connector Insulator: ..... TEFLON  
Internal Insulator: ..... ALUMINA CERAMIC  
Coating Material: ..... N/A  
Primary Gas: ..... HE-3  
Total Pressure: ..... 170.5 psia ( 1.17 MPa)

### Electrical

Resistance : ..... 1.00E+12 ohms  
Capacitance: ..... 8 pF±20%

### Maximum Ratings

Maximum Voltage: ..... 2500 volts  
Maximum Temperature: ..... 100 °C

### Operating Characteristics

Thermal neutron flux range: ..... 1.00E-03 to 8.75E+02 nv  
Thermal neutron sensitivity: ..... 58.5 cps/nv ± 10 %  
Voltage Range: ..... 1400 to 1900 volts  
Resolution (FWHM): ..... < 15 %  
Temperature range: ..... -25 °C to 100 °C

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