

20110

Cylindrical bf3 neutron detector

## GENERAL SPECIFICATIONS

|                                      |             |
|--------------------------------------|-------------|
| MAXIMUM LENGTH (INCH/MM)             | 7.75/196.85 |
| MAXIMUM DIAMETER (INCH/MM)           | 0.5/12.7    |
| EFFECTIVE LENGTH (INCH/MM)           | 4.0/101.60  |
| CATHODE MATERIAL (INTERNAL/EXTERNAL) | OFHC Copper |
| EFFECTIVE DIAMETER (INCH/MM)         | 0.44/11.07  |
| CONNECTOR                            | MHV         |
| OPERATING TEMPERATURE RANGE °C       | -50 to +100 |
| GAS PRESSURE (TORR)                  | 700         |
| EFFECTIVE VOLUME (CM <sup>3</sup> )  | 9.78        |

## ELECTRICAL SPECIFICATIONS

|                                       |             |
|---------------------------------------|-------------|
| RECOMMENDED OPERATING VOLTAGE (VOLTS) | 1200        |
| OPERATING VOLTAGE RANGE (VOLTS)       | 1050 - 1300 |

|                                     |     |
|-------------------------------------|-----|
| MAXIMUM PLATEAU SLOPE (%/100 VOLTS) | 1   |
| TUBE CAPACITANCE (PF)               | 5   |
| WEIGHT (GRAMS)                      | 283 |
| MAXIMUM RESOLUTION (% FWHM)         | 8   |

## THERMAL NEUTRON SENSITIVITY

|                      |      |
|----------------------|------|
| SENSITIVITY (CPS/NV) | 0.39 |
|----------------------|------|

