

# 251101

Cylindrical he3 neutron detector

## GENERAL SPECIFICATIONS

<b>MAXIMUM LENGTH (INCH/MM)</b>	7.87/200.0
<b>MAXIMUM DIAMETER (INCH/MM)</b>	0.5/12.7
<b>EFFECTIVE LENGTH (INCH/MM)</b>	6.08/154.4
<b>CATHODE MATERIAL (INTERNAL/EXTERNAL)</b>	Stainless Steel
<b>EFFECTIVE DIAMETER (INCH/MM)</b>	0.4/10.16
<b>CONNECTOR</b>	Flying Lead
<b>OPERATING TEMPERATURE RANGE °C</b>	-50 to +100
<b>GAS PRESSURE (TORR)</b>	4560
<b>EFFECTIVE VOLUME (CM<sup>3</sup>)</b>	12.6

## ELECTRICAL SPECIFICATIONS

<b>RECOMMENDED OPERATING VOLTAGE (VOLTS)</b>	1200
<b>OPERATING VOLTAGE RANGE (VOLTS)</b>	1100 - 1350

MAXIMUM PLATEAU SLOPE (%/100 VOLTS)	1
TUBE CAPACITANCE (PF)	6
WEIGHT (GRAMS)	180
MAXIMUM RESOLUTION (% FWHM)	8

## THERMAL NEUTRON SENSITIVITY

SENSITIVITY (CPS/NV)	5.95
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