

# 251106

Cylindrical he3 neutron detector

## GENERAL SPECIFICATIONS

<b>MAXIMUM LENGTH (INCH/MM)</b>	5.12/130.0
<b>MAXIMUM DIAMETER (INCH/MM)</b>	0.75/19.05
<b>EFFECTIVE LENGTH (INCH/MM)</b>	3.62/91.9
<b>CATHODE MATERIAL (INTERNAL/EXTERNAL)</b>	Stainless Steel
<b>EFFECTIVE DIAMETER (INCH/MM)</b>	0.71/18.03
<b>CONNECTOR</b>	Pin
<b>OPERATING TEMPERATURE RANGE °C</b>	-25 to +150
<b>GAS PRESSURE (TORR)</b>	6080
<b>EFFECTIVE VOLUME (CM<sup>3</sup>)</b>	23.4

## ELECTRICAL SPECIFICATIONS

<b>RECOMMENDED OPERATING VOLTAGE (VOLTS)</b>	900
<b>OPERATING VOLTAGE RANGE (VOLTS)</b>	800-1050

MAXIMUM PLATEAU SLOPE (%/100 VOLTS)	1
TUBE CAPACITANCE (PF)	3
WEIGHT (GRAMS)	90
MAXIMUM RESOLUTION (% FWHM)	10

## THERMAL NEUTRON SENSITIVITY

SENSITIVITY (CPS/NV)	18
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