

# 252113

Cylindrical he3 neutron detector

## GENERAL SPECIFICATIONS

<b>MAXIMUM LENGTH (INCH/MM)</b>	6.6/167.64
<b>MAXIMUM DIAMETER (INCH/MM)</b>	1.0/25.4
<b>EFFECTIVE LENGTH (INCH/MM)</b>	5.0/127.0
<b>CATHODE MATERIAL (INTERNAL/EXTERNAL)</b>	Stainless Steel
<b>EFFECTIVE DIAMETER (INCH/MM)</b>	0.96/24.38
<b>CONNECTOR</b>	Pin
<b>OPERATING TEMPERATURE RANGE °C</b>	-25 to +150
<b>GAS PRESSURE (TORR)</b>	2666
<b>EFFECTIVE VOLUME (CM<sup>3</sup>)</b>	59.28

## ELECTRICAL SPECIFICATIONS

<b>RECOMMENDED OPERATING VOLTAGE (VOLTS)</b>	900
<b>OPERATING VOLTAGE RANGE (VOLTS)</b>	750 - 1000

MAXIMUM PLATEAU SLOPE (%/100 VOLTS)	1
TUBE CAPACITANCE (PF)	8
WEIGHT (GRAMS)	200
MAXIMUM RESOLUTION (% FWHM)	7

## THERMAL NEUTRON SENSITIVITY

SENSITIVITY (CPS/NV)	17.0
----------------------	------

