

# 2531

Cylindrical he3 neutron detector

## GENERAL SPECIFICATIONS

<b>MAXIMUM LENGTH (INCH/MM)</b>	11.63/295.4
<b>MAXIMUM DIAMETER (INCH/MM)</b>	2.0/50.8
<b>EFFECTIVE LENGTH (INCH/MM)</b>	8.0/203.2
<b>CATHODE MATERIAL (INTERNAL/EXTERNAL)</b>	Stainless Steel
<b>EFFECTIVE DIAMETER (INCH/MM)</b>	1.88/47.75
<b>CONNECTOR</b>	HN
<b>OPERATING TEMPERATURE RANGE °C</b>	-50 to +100
<b>GAS PRESSURE (TORR)</b>	4560
<b>EFFECTIVE VOLUME (CM<sup>3</sup>)</b>	363.73

## ELECTRICAL SPECIFICATIONS

<b>RECOMMENDED OPERATING VOLTAGE (VOLTS)</b>	1950
<b>OPERATING VOLTAGE RANGE (VOLTS)</b>	1700 - 2200

MAXIMUM PLATEAU SLOPE (%/100 VOLTS)	2
TUBE CAPACITANCE (PF)	8.5
WEIGHT (GRAMS)	510
MAXIMUM RESOLUTION (% FWHM)	6

## THERMAL NEUTRON SENSITIVITY

SENSITIVITY (CPS/NV)	83.0
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