

# 25026

Cylindrical He-3 neutron detector

## GENERAL SPECIFICATIONS

<b>MAXIMUM LENGTH (INCH/MM)</b>	2.21/56.2
<b>MAXIMUM DIAMETER (INCH/MM)</b>	0.38/9.5
<b>EFFECTIVE LENGTH (INCH/MM)</b>	0.74/18.9
<b>CATHODE MATERIAL (INTERNAL/EXTERNAL)</b>	Stainless Steel
<b>EFFECTIVE DIAMETER (INCH/MM)</b>	0.26/6.60
<b>CONNECTOR</b>	Flying Lead
<b>OPERATING TEMPERATURE RANGE °C</b>	-50 to +100
<b>GAS PRESSURE (TORR)</b>	15200
<b>EFFECTIVE VOLUME (CM<sup>3</sup>)</b>	0.64

## ELECTRICAL SPECIFICATIONS

<b>RECOMMENDED OPERATING VOLTAGE (VOLTS)</b>	1300
<b>OPERATING VOLTAGE RANGE (VOLTS)</b>	1200 - 1450

<b>MAXIMUM PLATEAU SLOPE (%/100 VOLTS)</b>	1
<b>TUBE CAPACITANCE (PF)</b>	4
<b>WEIGHT (GRAMS)</b>	25
<b>MAXIMUM RESOLUTION (% FWHM)</b>	10

## **THERMAL NEUTRON SENSITIVITY**

<b>SENSITIVITY (CPS/NV)</b>	0.7
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