

251

Cylindrical he3 neutron detector

GENERAL SPECIFICATIONS

MAXIMUM LENGTH (INCH/MM)	5.37/136.4
MAXIMUM DIAMETER (INCH/MM)	0.5/12.7
EFFECTIVE LENGTH (INCH/MM)	2.5/63.5
CATHODE MATERIAL (INTERNAL/EXTERNAL)	Aluminum
EFFECTIVE DIAMETER (INCH/MM)	0.4/10.16
CONNECTOR	MHV
OPERATING TEMPERATURE RANGE °C	-50 to +100
GAS PRESSURE (TORR)	3040
EFFECTIVE VOLUME (CM³)	5.15

ELECTRICAL SPECIFICATIONS

RECOMMENDED OPERATING VOLTAGE (VOLTS)	1000
OPERATING VOLTAGE RANGE (VOLTS)	900 - 1200

MAXIMUM PLATEAU SLOPE (%/100 VOLTS)	1
TUBE CAPACITANCE (PF)	4
WEIGHT (GRAMS)	85
MAXIMUM RESOLUTION (% FWHM)	6

THERMAL NEUTRON SENSITIVITY

SENSITIVITY (CPS/NV)	1.9
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