

2023

Cylindrical bf3 neutron detector

GENERAL SPECIFICATIONS

GAS PRESSURE (TORR)	400
CATHODE MATERIAL (INTERNAL/EXTERNAL)	Aluminum
MAXIMUM LENGTH (INCH/MM)	16.22/411.99
EFFECTIVE LENGTH (INCH/MM)	12.25/311.15
MAXIMUM DIAMETER (INCH/MM)	1.0/25.4
EFFECTIVE DIAMETER (INCH/MM)	0.93/23.62
CONNECTOR	HN
EFFECTIVE VOLUME (CM³)	136.29
OPERATING TEMPERATURE RANGE °C	-50 to +100

ELECTRICAL SPECIFICATIONS

RECOMMENDED OPERATING VOLTAGE (VOLTS)	1350
OPERATING VOLTAGE RANGE (VOLTS)	1250 - 1500

MAXIMUM PLATEAU SLOPE (%/100 VOLTS)	1
MAXIMUM RESOLUTION (% FWHM)	8
TUBE CAPACITANCE (PF)	7
WEIGHT (GRAMS)	312

THERMAL NEUTRON SENSITIVITY

SENSITIVITY (CPS/NV)	3.1
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