

50454

Boron lined neutron ionization chamber

GENERAL SPECIFICATIONS

MAXIMUM LENGTH (INCH/MM)	10.38/263.65
MAXIMUM DIAMETER (INCH/MM)	2.95/74.93
EFFECTIVE LENGTH (INCH/MM)	6.75/171.45
CATHODE MATERIAL (INTERNAL/EXTERNAL)	Aluminum
FILL GAS	Hydrogen
FILL PRESSURE (TORR)	250
EFFECTIVE VOLUME (CM ³)	142.0
OUTER CASING MATERIAL	Aluminum
ANODE CONNECTOR	HN
CATHODE CONNECTOR	HN
GUARD CONNECTOR	N/A

OPERATING CHARACTERISTICS

RECOMMENDED OPERATING VOLTAGE (VOLTS)	500
OPERATING TEMPERATURE RANGE °C	-50 to +100
NEUTRON SENSITIVITY (AMPS/NV)	3.08E-15
NEUTRON FLUX RANGE (NV)	1.0E4 to 1.0E10
MAXIMUM OPERATING VOLTAGE (VOLTS)	800
GAMMA SENSITIVITY (A/R/HR - CO60)	7.5E-13
RESISTANCE - SIGNAL ELECTRODE TO CATHODE (OHMS)	>1.0E13
RESISTANCE - GUARD ELECTRODE TO CATHODE (OHMS)	>1.0E10

NEUTRON SENSITIVE MATERIAL

COATING MATERIAL	B10
ENRICHMENT (%)	18.8
COATED THICKNESS (MG/CM²)	0.48
COATED AREA (CM²)	450

