

50329

Boron lined neutron ionization chamber

GENERAL SPECIFICATIONS

MAXIMUM LENGTH (INCH/MM)	11.88/301.75
MAXIMUM DIAMETER (INCH/MM)	2.0/50.8
EFFECTIVE LENGTH (INCH/MM)	9.0/228.6
CATHODE MATERIAL (INTERNAL/EXTERNAL)	Aluminum
FILL GAS	Hydrogen
FILL PRESSURE (TORR)	1520
EFFECTIVE VOLUME (CM³)	225.0
OUTER CASING MATERIAL	Aluminum
ANODE CONNECTOR	MHV
CATHODE CONNECTOR	MHV
GUARD CONNECTOR	N/A

OPERATING CHARACTERISTICS

RECOMMENDED OPERATING VOLTAGE (VOLTS)	500
OPERATING TEMPERATURE RANGE °C	-50 to +100
NEUTRON SENSITIVITY (AMPS/NV)	4.0E-14
NEUTRON FLUX RANGE (NV)	2.5E2 to 2.5E10
MAXIMUM OPERATING VOLTAGE (VOLTS)	800
GAMMA SENSITIVITY (A/R/HR - CO60)	5.0E-11
RESISTANCE - SIGNAL ELECTRODE TO CATHODE (OHMS)	>1.0E13
RESISTANCE - GUARD ELECTRODE TO CATHODE (OHMS)	>1.0E10
INTERNAL TEST SOURCE CURRENT (AMPS)	1.5 - 4.5E-11

NEUTRON SENSITIVE MATERIAL

COATING MATERIAL	B10
ENRICHMENT (%)	96
COATED THICKNESS (MG/CM ²)	1
COATED AREA (CM ²)	240

