

50337

Boron lined neutron ionization chamber

GENERAL SPECIFICATIONS

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| MAXIMUM LENGTH (INCH/MM) | 10.88/276.4 |
| MAXIMUM DIAMETER (INCH/MM) | 2.0/50.8 |
| EFFECTIVE LENGTH (INCH/MM) | 8.0/203.3 |
| CATHODE MATERIAL (INTERNAL/EXTERNAL) | Aluminum |
| FILL GAS | Hydrogen |
| FILL PRESSURE (TORR) | 1520 |
| EFFECTIVE VOLUME (CM³) | 204.0 |
| OUTER CASING MATERIAL | Aluminum |
| ANODE CONNECTOR | MHV |
| CATHODE CONNECTOR | MHV |

OPERATING CHARACTERISTICS

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| RECOMMENDED OPERATING VOLTAGE (VOLTS) | 500 |
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| OPERATING TEMPERATURE RANGE °C | -50 to +100 |
| NEUTRON SENSITIVITY (AMPS/NV) | 3.0E-14 |
| NEUTRON FLUX RANGE (NV) | 1.0E4 to 1.0E10 |
| MAXIMUM OPERATING VOLTAGE (VOLTS) | 800 |
| GAMMA SENSITIVITY (A/R/HR - CO60) | 1.0E-12 |
| RESISTANCE - HV ELECTRODE TO SHELL (OHMS) | >1.0E10 |
| RESISTANCE - SIGNAL ELECTRODE TO SHELL (OHMS) | >1.0E13 |

NEUTRON SENSITIVE MATERIAL

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| COATING MATERIAL | B10 |
| ENRICHMENT (%) | 96 |
| COATED THICKNESS (MG/CM ²) | 1 |
| COATED AREA (CM ²) | 219 |

