

# 49711

Large area – beta – gamma proportional counter

## GENERAL SPECIFICATIONS

|                                      |            |
|--------------------------------------|------------|
| MAXIMUM LENGTH (INCH/MM)             | 9.64/244.9 |
| GAS FILLING                          | Argon      |
| EFFECTIVE LENGTH (INCH/MM)           | 6.54/166.1 |
| CATHODE MATERIAL (INTERNAL/EXTERNAL) | Aluminum   |
| CONNECTOR                            | MHV        |
| OPERATING TEMPERATURE RANGE °C       | 0 to +50   |
| MAXIMUM WIDTH (INCH/MM)              | 4.69/119.1 |
| GAS PRESSURE (TORR)                  | 800        |
| EFFECTIVE WIDTH (INCH/MM)            | 4.08/103.7 |
| PATH LENGTH (INCH/MM)                | 0.50/12.7  |

## WINDOW SPECIFICATIONS

|          |          |
|----------|----------|
| MATERIAL | Aluminum |
|----------|----------|

|                                     |               |
|-------------------------------------|---------------|
| THICKNESS (INCH/MM)                 | 0.00047/0.012 |
| AREAL DENSITY (MG/CM <sup>2</sup> ) | 3.0           |
| EFFECTIVE AREA (CM <sup>2</sup> )   | 115           |

## ELECTRICAL SPECIFICATIONS

|                                       |             |
|---------------------------------------|-------------|
| RECOMMENDED OPERATING VOLTAGE (VOLTS) | 1250        |
| OPERATING VOLTAGE RANGE (VOLTS)       | 1000 - 1500 |
| GAMMA SENSITIVITY CO60 (CPS/mR/HR)    | 300         |
| MINIMUM COUNTING LIFE (COUNTS)        | 1.0E12      |
| PLATEAU SLOPE (%/100 VOLTS)           | 2           |
| BACKGROUND (SHIELDED 5 CM PB) CPM     | 100         |

