

# 49721

Large area – alpha -beta- gamma proportional counter

## GENERAL SPECIFICATIONS

<b>MAXIMUM LENGTH (INCH/MM)</b>	8.33/211.6
<b>GAS FILLING</b>	Argon
<b>EFFECTIVE LENGTH (INCH/MM)</b>	6.54/166.1
<b>CATHODE MATERIAL (INTERNAL/EXTERNAL)</b>	Aluminum
<b>CONNECTOR</b>	Pin
<b>OPERATING TEMPERATURE RANGE °C</b>	0 to +50
<b>MAXIMUM WIDTH (INCH/MM)</b>	4.69/119.1
<b>GAS PRESSURE (TORR)</b>	800
<b>EFFECTIVE WIDTH (INCH/MM)</b>	4.08/103.7
<b>PATH LENGTH (INCH/MM)</b>	0.50/12.7

## WINDOW SPECIFICATIONS

<b>MATERIAL</b>	Aluminum
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THICKNESS (INCH/MM)	0.0003/0.008
AREAL DENSITY (MG/CM <sup>2</sup> )	2.0
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
ALPHA BACKGROUND (CPS)	0.05

