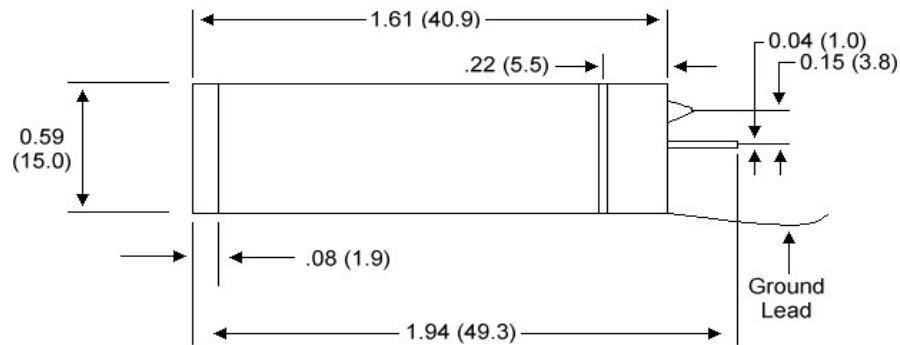


# Images Scientific Instruments, Inc.

## Geiger Counter Tube (GM-01) Thin Window Alpha, Beta & Gamma Detector



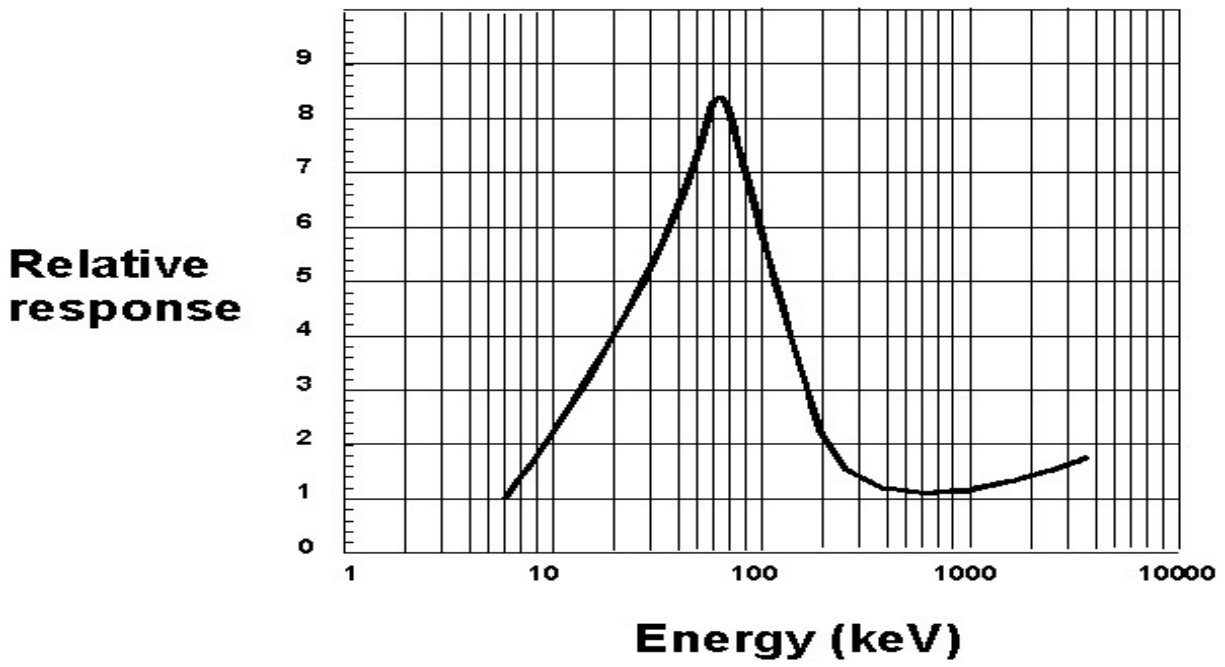
### Electrical Characteristics

Maximum Starting Voltage (volts)	325
Recommended Operating Voltage (volts)	500
Operating Voltage (volts)	450 – 650
Maximum Dead Time (u sec)	90
Maximum Plateau Slope (%/100 volts)	6
Minimum Anode Resistor (M ohms)	4.7
Recommended Anode Resistor (M ohms)	10
Gamma Sensitivity Cs <sup>137</sup> (cps/mR/hr)	18
Max. Background Shielded 50 mmpB + 3 mmAl (cpm)	10
Tube Capacitance (pF)	1.5
Weight (grams)	6.0

### Mechanical Characteristics

Active Length (inch / mm)	1.53 / 39.0
Active Diameter (inch / mm)	0.354 / 9.0
Cathode Material	446 Stainless Steel
Cathode Wall Thickness (inch / mm)	0.010 / 0.25
Areal Density (mg / cm <sup>2</sup> )	250
Effective Window Diameter (inch / mm)	0.354 / 9.0
Mica Window Thickness (mg / cm <sup>2</sup> )	1.5 – 2.0
Fill Gas	Ne / Ar + Halogen
Operating Temperature Range (°C)	-40 to +75
Type of Connector	Pin

### Energy Response relative to Cs-137



### Count rate vs. Dose rate (Cs-137)

