Permanent Sensitivity X-RAY COUNTER

Description 6207 (1530)

The type 153C is an optimum design for an end mica window, X-Ray diffraction and fluorescence analysis counter. It has maximum sensitivity to the characteristic radiation of the usual X-Ray diffraction targets. The infinite-life, halogen filling allows the exposure of the tube to the direct X-Ray beam without any adverse effect.

General Data

Operating temperature range	55° to +75°C
Gas filling	Argon plus hologen admixture
Cathode material	stainless steel (28% chromium, 72% iron)
Mica windows	3 to 4 mg/cm ⁹
Mica window diameter	25/32"
Length of sensitive gas path	100 mm
Recommended X-Ray beam width	1.2 cm
Effective cothode dimensions	4%" long x %" O.D. x 3/64" wall

Performance Data

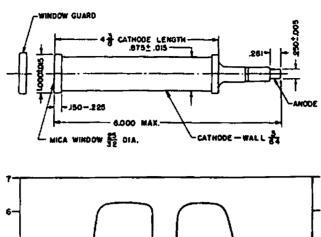
1500 volts D.C.
in excess of 400 volts
3% to 8% per 100 volts
1300 to 1400 volts
2.4 mmf
65% to 70%
150 microseconds
1100 counts per second
60 counts oper minute max.
unlimited by use

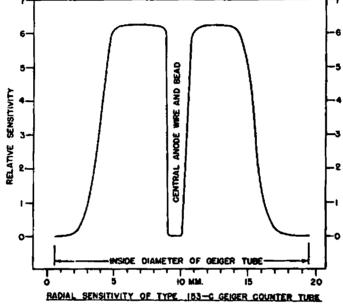
Mala.

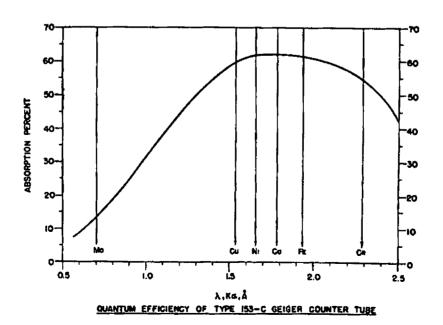
- ¹ This data is obtained from an automatic plateau trace run on each tube.
 A print of this trace is shipped with each tube.
- ² Guaranteed 5 x 10¹⁰ counts minimum.
- ³ These tubes will operate satisfactorily anywhere on the plateau.
- ⁴ At an average counting rate of 100 counts per second.
- ⁵ For 20% dead time correction (approx.).
- 6 3.5 mg/cm² mica = .0005 inch = 12.70 microns.

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