

RADIATION COUNTER TUBE

DESCRIPTION

The type IB90 is an all glass, thin-wall, self-quenching counter tube for detecting beta and gamma radiation. It is designed for use in battery operated survey instruments and Prospector's Units for locating radioactive material.

MECHANICAL DATA

ENVELOPE: T6 Glass. Thin-wall, nominal*: 35 mg. per sq.cm.

BASE: Untinned flexible stranged leads. Length: 3°, nominal

MOUNTING POSITION: Any

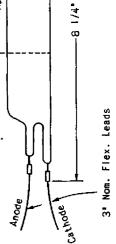
ELECTRICAL DATA

RATINGS:

Testing Voltage, max.**
Counting Rate, max.
Temperature Range
Geiger Threshold, max.
Plateau Length **
Relative Plateau Slope
Operating Voltage **
Background # (approx.)
Efficiency, min.
Capacity, average ##
Life

- Use ccution when handling thin wall of bulb.
- ** The plateau length for new tubes is longer than indicated, however, do not test for maximum length as tubes are readily damaged by very short discharges at the end of the plateau. The maximum rating test voltage should not be exceeded during test. Operating voltage shown is for fixed voltage operation.

 Application of reverse battery polarity will destroy the characteristics of the tube.
- f The tube is covered with an opaque coating to exclude light.
- f f Does not include leads.



Tentative Data August 23, 1949

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