



ELECTRONIC TUBE REFERENCE

1B90

Specialized - Radiation Counter electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

GEIGERMULLERCOUNTER

All-glass thin-wall self-quenching Geiger-Müller counter for beta and gamma radiation. Designed for battery-operated survey instruments, its lightweight construction suits portable radiation detection and field monitoring.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect; cold cathode	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 GeigerMullerCounter*No fixed ratings recorded.**Values promoted from published ratings/characteristics where identifiable.*

DESCRIPTION The type IBSO 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.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Raytheon

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1938 RAYTHEON

Section 1 · GeigerMullerCounter

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Testing Voltage, max.** Threshold ¢	150 volts	Testing Voltage, max.** Threshold ¢ 150 volts,dc
Counting Rate, max	12000 CPM	Counting Rate, max. 12000 CPM
Temperature Range	55 Cent	Temperature Range -40°to +55° Cent.
Geiger Threshotd, max	1100 volts	Geiger Threshotd, max. 1100 volts,de
Relative Plateau Slope	100 volts	Relative Plateau Slope 3% vper 100 volts
Operating Voltage ** Threshold #	50 volts	Operating Voltage ** Threshold # 50 volts,dc
Background # (approx)	80 CPM	Background # (approx) 80 CPM
Life	108 Counts	Life 108 Counts = <« ;',