

**RADIO MANUFACTURERS ASSOCIATION
ENGINEERING DEPARTMENT**

RMA RELEASE NO. 660

May 5, 1948

COUNTER TUBES

sponsor: Tracerlab, Inc.

1B83, 1B84

General Characteristics

- (a) Beta - Gamma
- (b) Self-Quenching

	1B83	1B84
<u>Electrical</u>		
Geiger Voltage Threshold	1300 (av.) volts, d.c.	1300 (av.) volts, d.c.
Plateau Length.....	>300 volts	>300 volts
Relative Plateau Slope.....	< 5% per 100 volts	< 5% per 100 volts
Operating Voltage.....	1400 (av.) volts, d.c.	1400 (av.) volts, d.c.
1. Background at Operating Voltage.....	30 ± 10 counts/min.	30 ± 10 counts/min.
Recovery Time.....	>300 usec	>300 usec
Efficiency.....	99%	99%
Electrode Capacitance.....	3 uuf	3 uuf
2. Output across standard input circuit at operating voltage.....	>700 millivolts	>700 millivolts

Mechanical

See Outline Drawing

Base Connections.....	2AC	2AC
Window Thickness.....TGO-1.....	3 - 4 mg. per sq. cm.	1 - 2 mg. per sq. cm.

Maximum Ratings

Ambient Temperature Range..	- 5 to +55 degrees C	- 5 to +55 degrees C.
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- (1) Surrounded 2" lead at sea level in Boston
- (2) See Attached circuit drawing

