Radio Manufacturers Association
Engineering Department

RMA Data Bureau
90 West Street
New York 6, N. Y.

Sponsor:
Amperex Electronic Corp.

Release No. 657

Gamma Counter Tubes
April 30, 1948

1B71, 1B72

1B71

Filling: Argon + quenching vapor
Operating Temperature range: -20°C to +100°C
Operating Voltage: 1150 volts D.C.
Plateau: in excess of 300 volts
Slope of Plateau: 2% to 5% per 100 volts
Capacity at terminals: 2.4 mm²
Cosmic Ray Efficiency: greater than 99%
Dead time: 200 microseconds
Background—unshielded: 50 counts per minute
Life Expectancy in counts: greater than 10⁶ counts
Cathode Material: Copper
Effective Cathode Dimensions: 3” long x 1” O.D. x 1/16” wall

1B72

Filling: Argon + quenching vapor
Operating Temperature range: 0°C to +100°C
Operating Voltage: 1400 volts D.C.
Plateau: in excess of 500 volts
Slope of Plateau: 10% per 100 volts
Capacity at terminals: 2.4 mm²
Cosmic Ray Efficiency: greater than 99%
Dead time: 200 microseconds
Background—unshielded: 20 counts per minute
Life Expectancy in counts: greater than 10¹⁰ counts
Cathode Material: Copper
Effective Cathode Dimensions: 3” long x 1” O.D. x 1/16” wall

Diagram: Dimensions and labeling of the 1B71 and 1B72 gamma counter tubes.