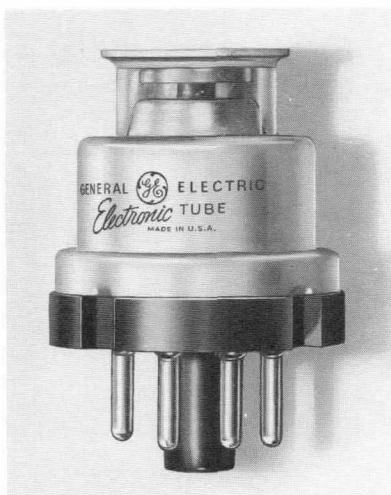




DESCRIPTION AND RATING

The 2B22 is a high-perveance diode of the disk-seal type. It is intended for use as a detector or monitor at frequencies as high as 1500 megacycles.

GENERAL

ELECTRICAL

Cathode—Coated Unipotential
Heater Characteristics and Ratings
Heater Voltage, AC or DC*..... 6.3 ± 0.3 Volts
Heater Current†.....0.75 Amperes
Direct Interelectrode Capacitances‡
Plate to Cathode: (p to k).....2.18 pf

MECHANICAL

Mounting Position—Any
Net Weight, approximate.....1 Ounce
Cooling—Convection

MAXIMUM RATINGS

ABSOLUTE-MAXIMUM VALUES

Duty Factor§.....0.05
Peak Plate Voltage.....100 Volts
Peak Inverse Plate Voltage.....300 Volts

Average Cathode Current.....20 Milliamperes
Peak Cathode Current§.....0.7 Amperes
DC Output Voltage.....150 Volts

Absolute-Maximum ratings are limiting values of operating and environmental conditions applicable to any electron tube of a specified type as defined by its published data and should not be exceeded under the worst probable conditions.

The tube manufacturer chooses these values to provide acceptable serviceability of the tube, making no allowance for equipment variations, environmental variations, and the effects of changes in operating conditions due to variations in the characteristics of the tube under consideration and of

all other electron devices in the equipment.

The equipment manufacturer should design so that initially and throughout life no absolute-maximum value for the intended service is exceeded with any tube under the worst probable operating conditions with respect to supply-voltage variation, equipment component variation, equipment control adjustment, load variation, signal variation, environmental conditions, and variations in the characteristics of the tube under consideration and of all other electron devices in the equipment.

The tubes and arrangements disclosed herein may be covered by patents of General Electric Company or others. Neither the disclosure of any information herein nor the sale of tubes by General Electric Company conveys any license under patent claims covering combinations of tubes with other devices or

elements. In the absence of an express written agreement to the contrary, General Electric Company assumes no liability for patent infringement arising out of any use of the tubes with other devices or elements by any purchaser of tubes or others.

AVERAGE CHARACTERISTICS

Tube Voltage Drop
I_b = 20 milliamperes 6.0 Volts

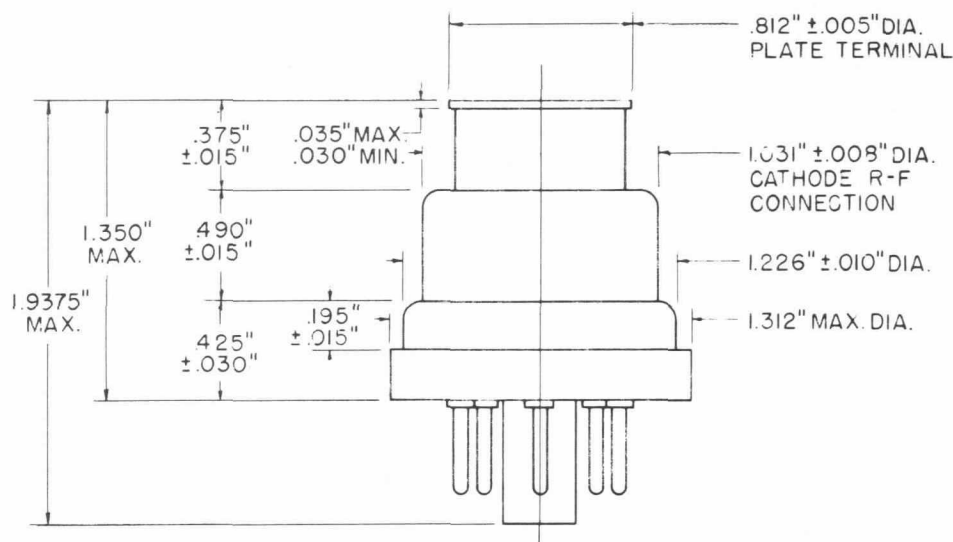
* The equipment designer should design the equipment so that heater voltage is centered at the specified bogey value, with heater supply variations restricted to maintain heater voltage within the specified tolerance.

† Heater current of a bogey tube at E_f = 6.3 volts.

‡ Without external shield.

§ In any 100 microsecond interval.

PHYSICAL DIMENSIONS



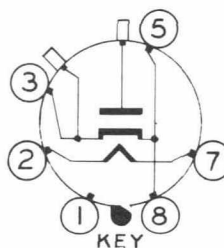
NOTE 1

Glass will not protrude beyond edge of plate terminal.

NOTE 2

Maximum eccentricity of the center-line of the plate terminal with the center-line of the R-F cathode connection 0.020\".

BASING DIAGRAM



Pin	Connection
1	Internal Connection
2	Heater
3	Cathode
5	Cathode
7	Heater
8	Cathode

RECEIVING TUBE DEPARTMENT

GENERAL  ELECTRIC

Owensboro, Kentucky