



**RADIO MANUFACTURERS ASSOCIATION  
ENGINEERING DEPARTMENT**

Release No. 468  
February 1, 1946  
sponsor:  
General Electric Co.

**RMA TYPE  
2B22**

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

**GENERAL CHARACTERISTICS**

Number of Electrodes	2
<u>Electrical</u>	
Cathode - Indirectly Heated	
Heater Voltage	6.3 Volts
Heater Current	0.75 Amperes
Average Characteristics	
Plate Voltage, $I_b = 20$ ma	6.0 Volts
Direct Interelectrode Capacitance	
Cathode-plate	2.20 Micromicrofarads
<u>Mechanical</u>	
Type of Cooling - Convection	
Maximum Seal Temperature	200 C
Base Description	6-pin Octal
Mounting Position	Any
Net Weight, approximate	3 Ounces
Shipping Weight, approximate	3 Pounds

**MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS**

Detector

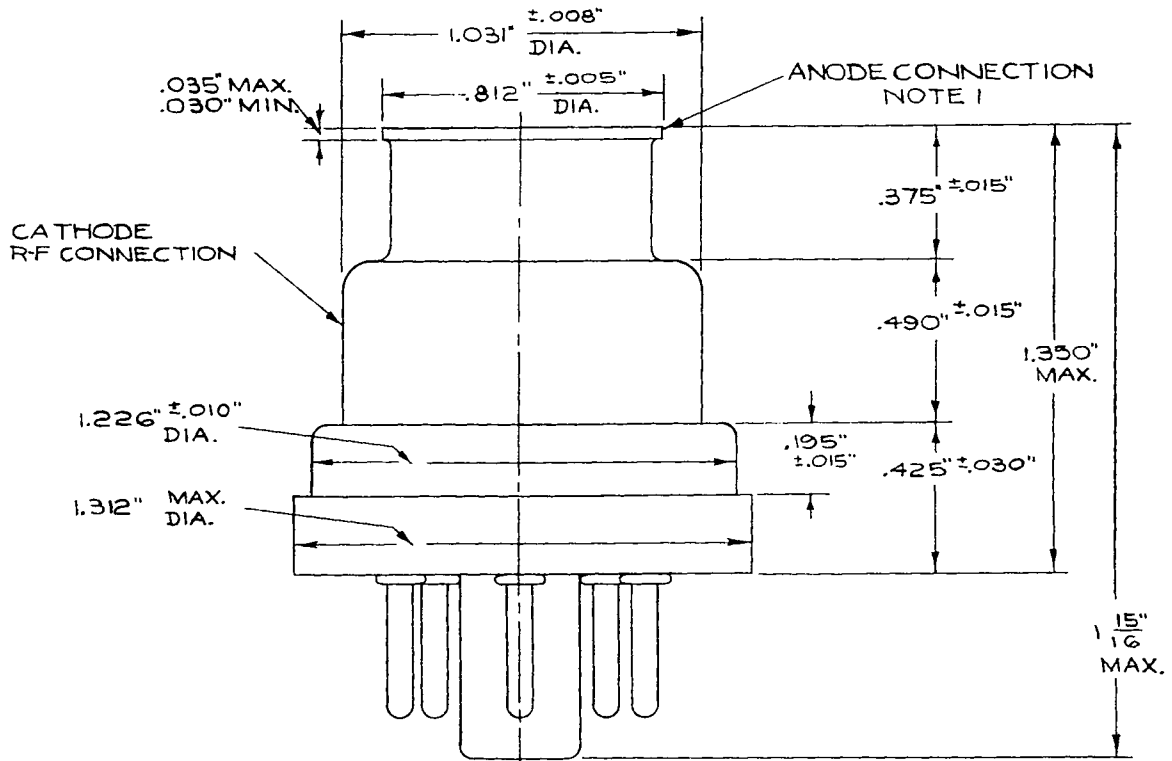
	<u>Typical Operation</u>	<u>Maximum Ratings</u>
Peak Plate Voltage		100 *Volts
Peak Cathode Current		0.7 *Amperes
Peak Inverse Voltage		300 Volts
Average Cathode Current	5	20 Milliamperes
Output Voltage	50	150 Volts d-c
Load Resistance	10000	Ohms

\* Tube shall not operate more than 5 microseconds in a 100-microsecond interval.

December 24, 1945.

RMA TYPE

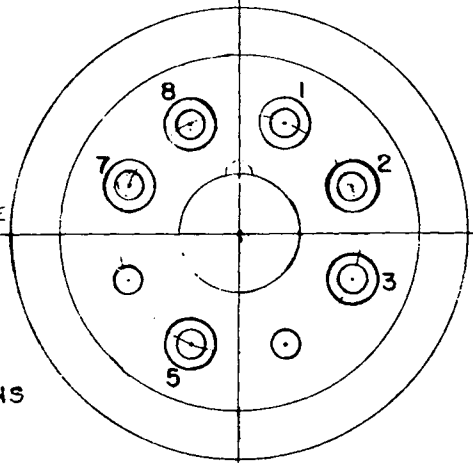
2B22



NOTE 1  
GLASS WILL NOT  
PROTRUDE BEYOND  
EDGE OF ANODE  
CONNECTION

NOTE 2  
MAX. ECCENTRICITY  
OF THE  $\phi$  OF THE ANODE  
CONNECTION WITH THE  
 $\phi$  OF THE R-F CATHODE  
0.20"

NOTE 3  
EXPOSED METAL PARTS  
PLATED WITH 100 MS1  
SILVER EXCEPT BASE PINS



PIN

CONNECTION

- |                        |            |
|------------------------|------------|
| 1. INTERNAL CONNECTION | 5. CATHODE |
| 2. HEATER              | 7. HEATER  |
| 3. CATHODE             | 8. CATHODE |