



**RADIO MANUFACTURERS ASSOCIATION  
ENGINEERING DEPARTMENT**

Release No. 468

February 1, 1946

sponsor:  
General Electric Co.

RMA TYPE

2C46

The 2C46 is a three-electrode tube of the disk-seal type designed for use in a specific cavity for stable local-oscillator service between 1000 and 1200 megacycles.

**GENERAL CHARACTERISTICS**

Number of Electrodes 3

Electrical

Cathode - Indirectly Heated  
 Heater Voltage 6.3 Volts  
 Heater Current 0.75 Amperes

Average Characteristics  
 Amplification Factor 60  
 Grid-Plate Transconductance,  $I_b = 14$  ma 3500 Micromhos

Direct Interelectrode Capacitances  
 Grid-Plate 1.7 Micromicrofarads  
 Grid-Cathode 2.2 Micromicrofarads  
 Plate-Cathode, maximum 0.025 Micromicrofarads  
 Cathode R-F Connection - Cathode 175 Micromicrofarads

Mechanical

Type of Cooling - Convection and Conduction  
 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**

CW Oscillator

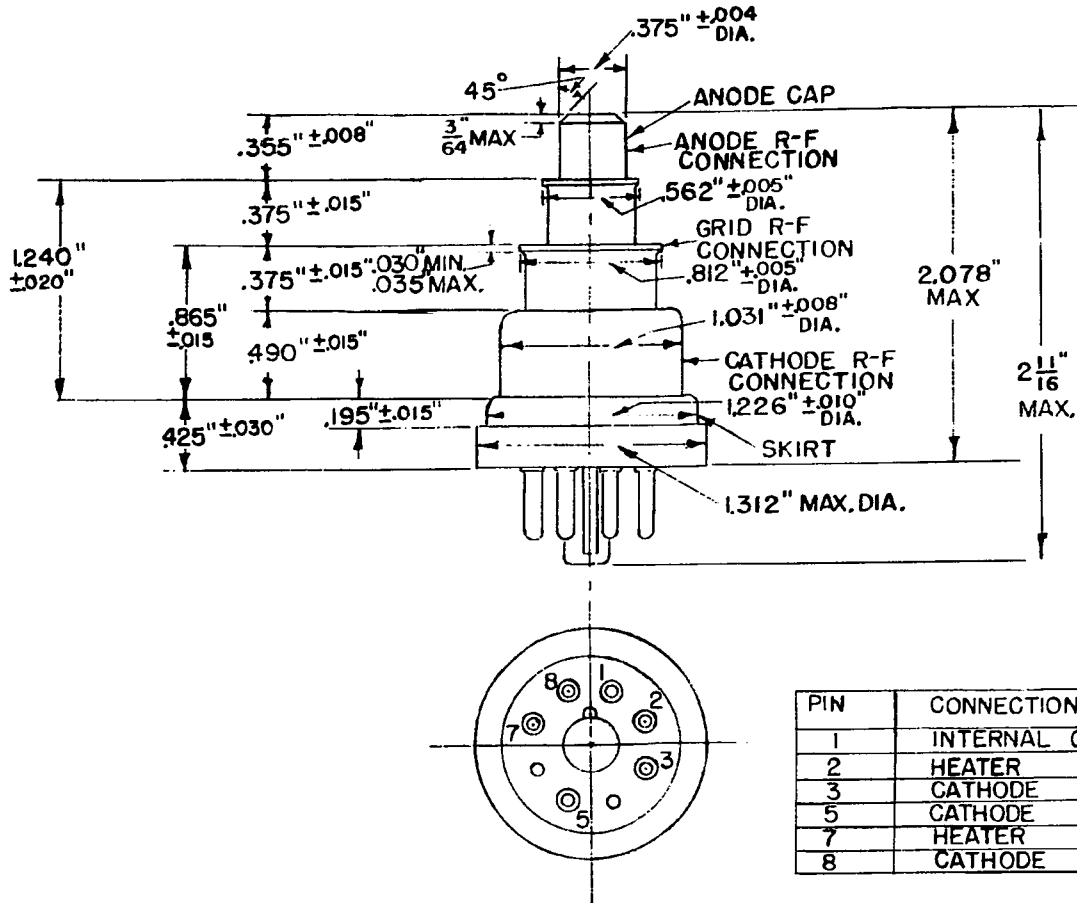
	<u>Typical Operation</u>	<u>Maximum Ratings</u>
D-c Plate Voltage	150	500 Volts
Grid Leak Resistance	0	Ohms
D-c Plate Current	8	40 Milliamperes
Plate Input	1.2	Watts
Plate Dissipation	1.18	12 Watts
Grid Current	3	Milliamperes
Power Output, approximate	20	Milliwatts
Frequency	1100	1300 Megacycles

December 24, 1945.

# RMA TYPES

2C42

2C46



NOTE 1: GLASS SHALL NOT PROTRUDE BEYOND EDGE OF ANODE R-F CONNECTION OR GRID R-F CONNECTION

NOTE 2: EXPOSED METAL R-F PARTS TO BE PLATED WITH 100 MSI SILVER EXCEPT BASE PINS

NOTE 3: ANODE CAP, GRID R-F CONNECTION, AND CATHODE R-F CONNECTION TO BE CONCENTRIC WITH RESPECT TO EACH OTHER WITHIN  $\frac{1}{64}$  IN.