

## MECHANICAL DATA

|                                    |               |
|------------------------------------|---------------|
| Maximum Overall Length . . . . .   | 2-7/16 Inches |
| Maximum Overall Diameter . . . . . | 1.005 Inches  |

## ELECTRICAL DATA

### HEATER CHARACTERISTICS

|                          |           |
|--------------------------|-----------|
| Heater Voltage . . . . . | 6.3 Volts |
| Heater Current . . . . . | 400 Ma    |

### DIRECT INTERELECTRODE CAPACITANCES (Max.)

|                            |                    |
|----------------------------|--------------------|
| Grid to Plate . . . . .    | 1.40 $\mu\text{f}$ |
| Grid to Cathode . . . . .  | 2.00 $\mu\text{f}$ |
| Plate to Cathode . . . . . | 0.15 $\mu\text{f}$ |

### RATINGS (Absolute Values)

|                                    |           |      |
|------------------------------------|-----------|------|
| Plate Voltage . . . . .            | 350 Volts | Max. |
| Plate Dissipation . . . . .        | 4 Watts   | Max. |
| Operating Frequency . . . . .      | 3000 Mc   | Max. |
| Maximum Seal Temperature . . . . . | 175°C     |      |

### CHARACTERISTICS

Conditions: ( $E_b=180$  volts dc,  $R_k=400$  ohms)

|                                |                       |
|--------------------------------|-----------------------|
| Plate Current . . . . .        | 4.0 Ma                |
| Transconductance . . . . .     | 4500 $\mu\text{mhos}$ |
| Amplification Factor . . . . . | 85                    |

### TYPICAL OPERATION

Grounded Grid Amplifier, 3000 mc

|                            |           |
|----------------------------|-----------|
| Plate Voltage . . . . .    | 150 Volts |
| Plate Current . . . . .    | 7.0 Ma    |
| Cathode Resistor . . . . . | 100 Ohms  |
| Power Gain . . . . .       | 5 DB      |

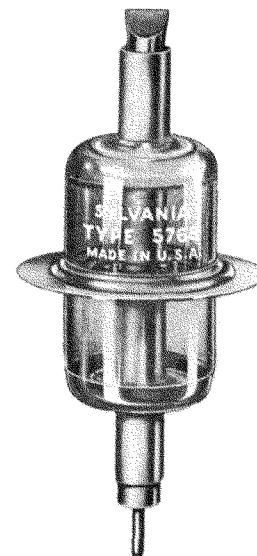
## APPLICATION DATA

The Sylvania Type 5768 is designed for service as a grounded grid amplifier at frequencies up to 3000 mc and may be used with a tuned or untuned input and tuned coaxial line output. Frequency ratios of about 4 to 1 (250-1000 mc) for continuous tuning can be obtained up to 1000 mc with no dead spots throughout the range. Ratios of about 3 to 1 can likewise be obtained up to 3300 mc.

The Sylvania Type 5768 planar triode features a stretched, parallel-wire grid that results in stable, uniform operation; a unique cathode design that minimizes discontinuities in the cathode structure; and a disc-seal type of construction that satisfies the requirements for low lead inductance. The mechanical configuration provides maximum isolation between input and output circuits.

## QUICK REFERENCE DATA

The Sylvania Type 5768 is a high mu planar triode designed primarily for operation as a grounded grid cw amplifier in the 1000-3000 mc range.



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## OUTLINE DRAWING

