

# FEDERAL POWER TRIODE Type F-5996 2.5 Kilowatts Plate Dissipation



## GENERAL DATA

### DESCRIPTION:

Federal's Type F-5996 is a three-electrode tube designed for use as an industrial oscillator. The anode is forced air-cooled, capable of dissipating 2.5 kilowatts. The cathode is a thoriated tungsten filament. Maximum ratings apply up to 30 megacycles.

### Electrical:

|                                                                        |                    |
|------------------------------------------------------------------------|--------------------|
| ▶ Filament Voltage                                                     | 13.0 Volts         |
| ▶ Filament Current                                                     | 36 Amperes         |
| ▶ Filament Starting Current                                            | 72 Amperes         |
| ▶ Filament Cold Resistance                                             | .040 Ohms          |
| ▶ Amplification Factor,<br>$E_c = -200 \text{ V}, I_b = 0.2 \text{ A}$ | 25                 |
| ▶ Interelectrode Capacitances                                          |                    |
| Grid-Plate                                                             | 12.0 $\mu\text{f}$ |
| Grid-Filament                                                          | 15.0 $\mu\text{f}$ |
| Plate-Filament                                                         | 1.8 $\mu\text{f}$  |

### Mechanical:

|                                                                     |     |     |              |
|---------------------------------------------------------------------|-----|-----|--------------|
| ▶ Mounting Position—<br>Vertical, Anode Down                        |     |     |              |
| ▶ Type of Cooling—Forced Air<br>Maximum Incoming<br>Air Temperature |     |     | 45° C        |
| ▶ Required Air Flow on Anode<br>Plate Dissipation<br>(Kilowatts)    | 2.5 | 2.0 | 1.5          |
| Air Flow—Cubic<br>Feet Per Min.                                     | 150 | 120 | 90           |
| Pressure—Inches<br>Water                                            | 2.5 | 1.6 | 0.9          |
| Maximum Glass<br>Temperature                                        |     |     | 150° C       |
| ▶ Net Weight,<br>Approximate                                        |     |     | 5 1/4 Pounds |

For Maximum Ratings, Typical Operating Conditions, and Characteristic Curves, refer to Catalog Sheet F-5680. All values and ratings apply with the exception that the F-5996 is not recommended for pulsed operation.

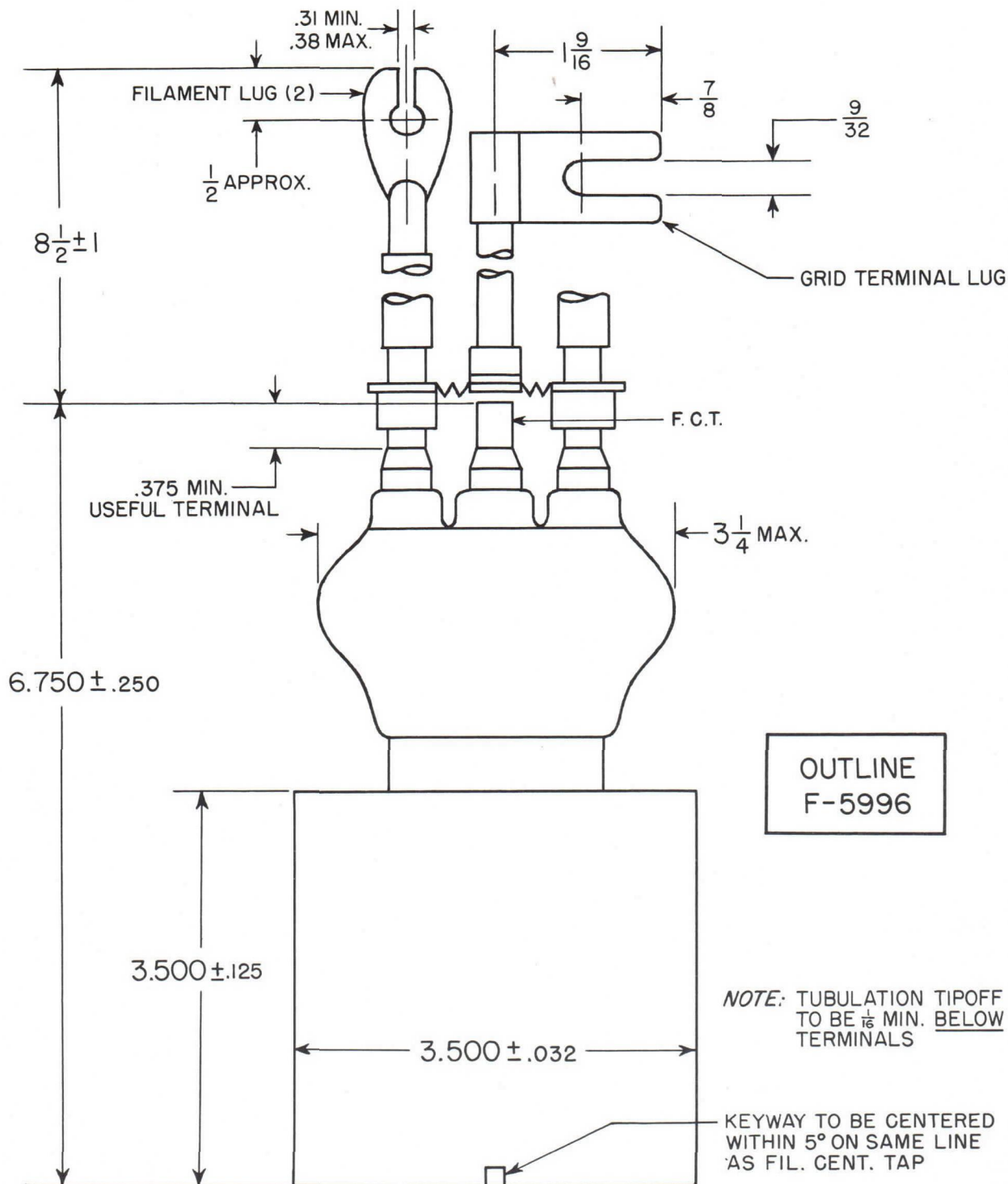
Federal's Type F-5996 has been designed to meet the rugged operating conditions of industrial heating equipment.

# FEDERAL POWER TRIODE Type F-5996

2.5 Kilowatts Plate Dissipation



Federal's name on a tube means the best in design, engineering, materials, components, and craftsmanship.



*Federal Telephone and Radio Company*

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