

# FEDERAL POWER TRIODE

## Type F-5996

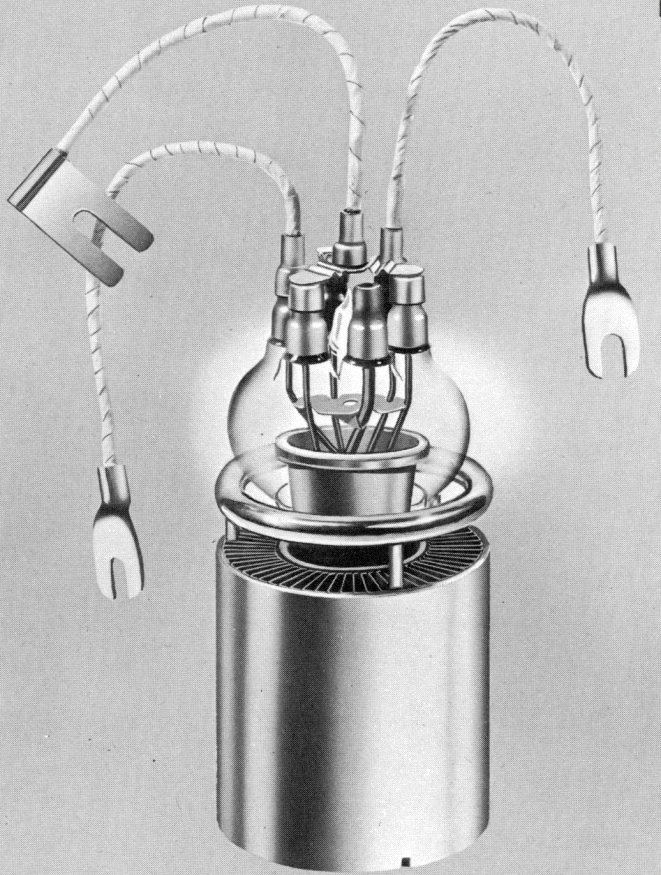
### 2.5 Kilowatts Plate Dissipation



#### 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.



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.

##### 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 $\mu\mu\text{f}$ |
| Grid-Filament                                                          | 15.0 $\mu\mu\text{f}$ |
| Plate-Filament                                                         | 1.8 $\mu\mu\text{f}$  |

##### Mechanical:

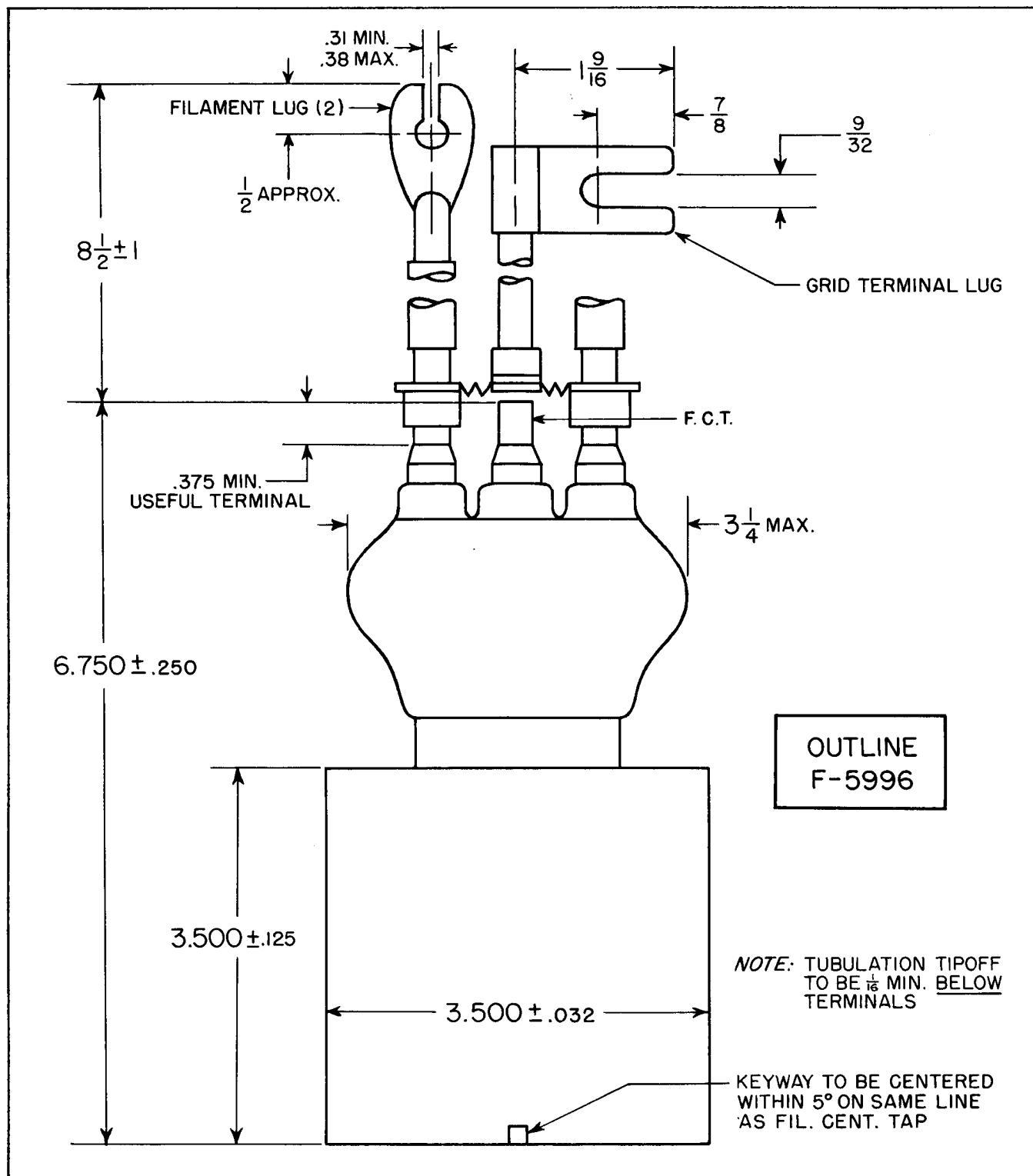
|                              |     |     |              |
|------------------------------|-----|-----|--------------|
| ► Mounting Position—         |     |     |              |
| Vertical, Anode Down         |     |     |              |
| ► Type of Cooling—Forced Air |     |     |              |
|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

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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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