

FEDERAL POWER TRIODE

Type F-5996

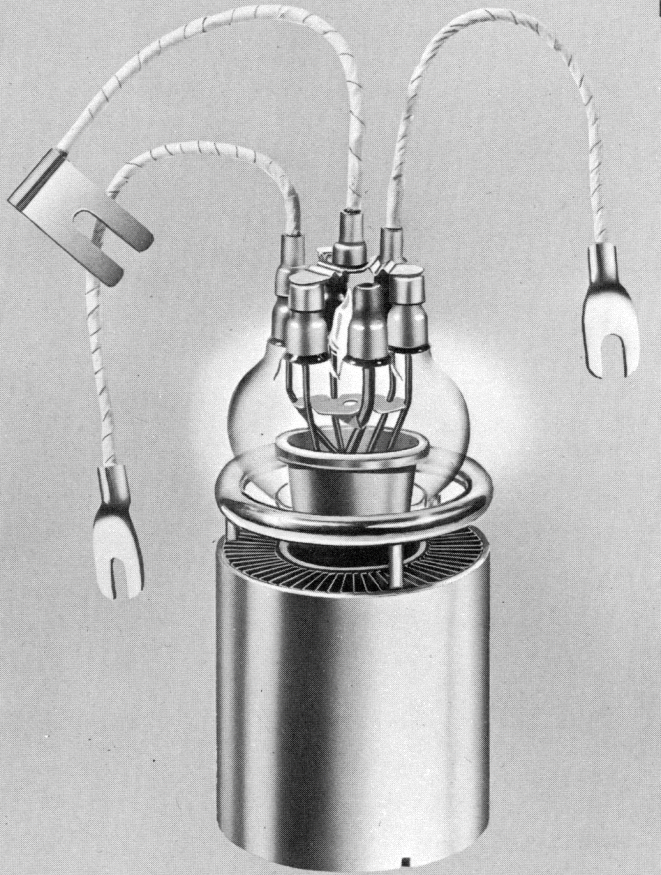
2.5 Kilowatts Plate Dissipation



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, $E_c = -200 \text{ V}, I_b = 0.2 \text{ A}$	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:

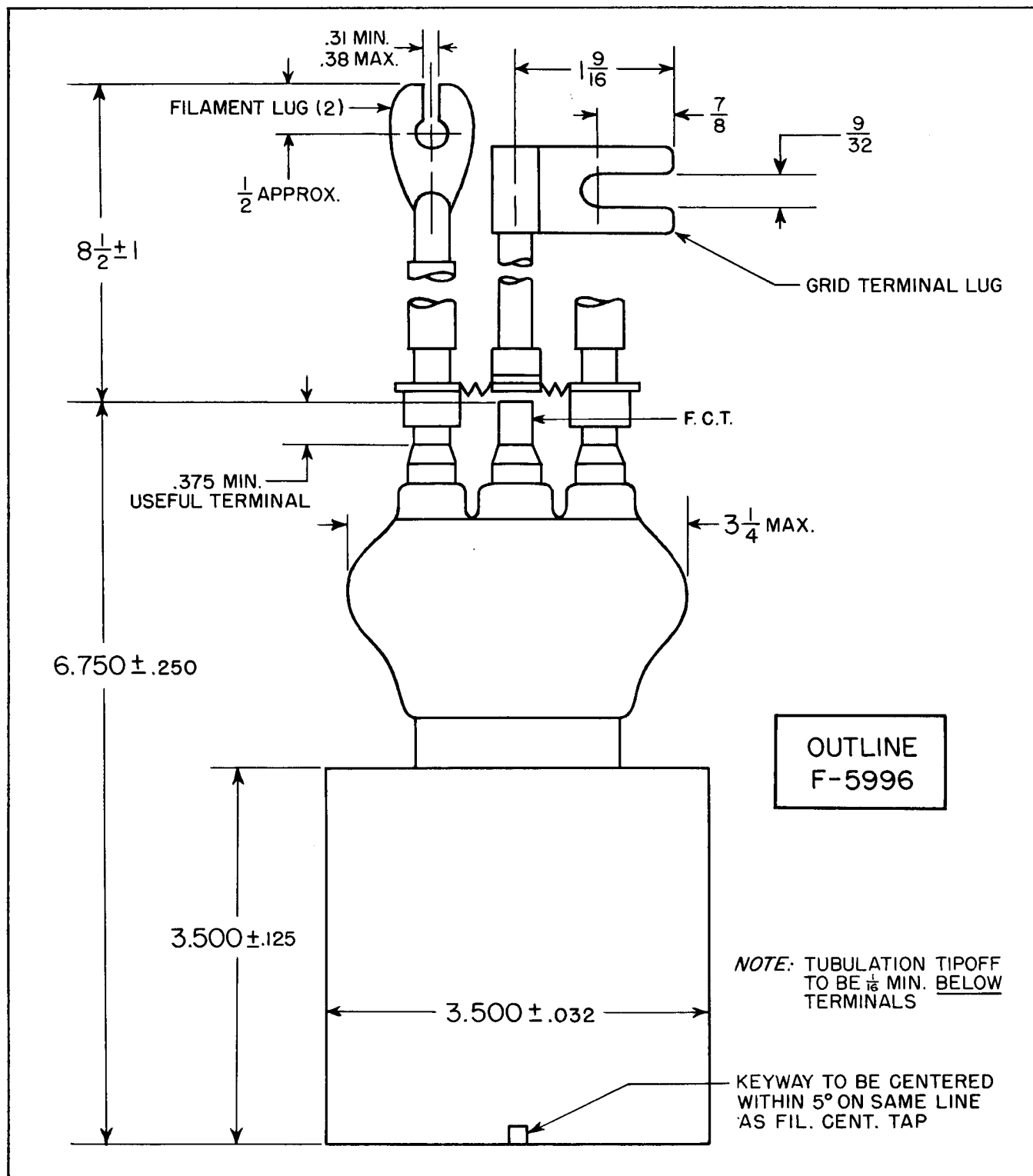
► Mounting Position—			
Vertical, Anode Down			
► Type of Cooling—Forced Air			
Maximum Incoming			
Air Temperature			45° C
► Required Air Flow on Anode			
Plate Dissipation			
(Kilowatts)	2.5	2.0	1.5
Air Flow—Cubic			
Feet Per Min.	150	120	90
Pressure—Inches			
Water	2.5	1.6	0.9
Maximum Glass			
Temperature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