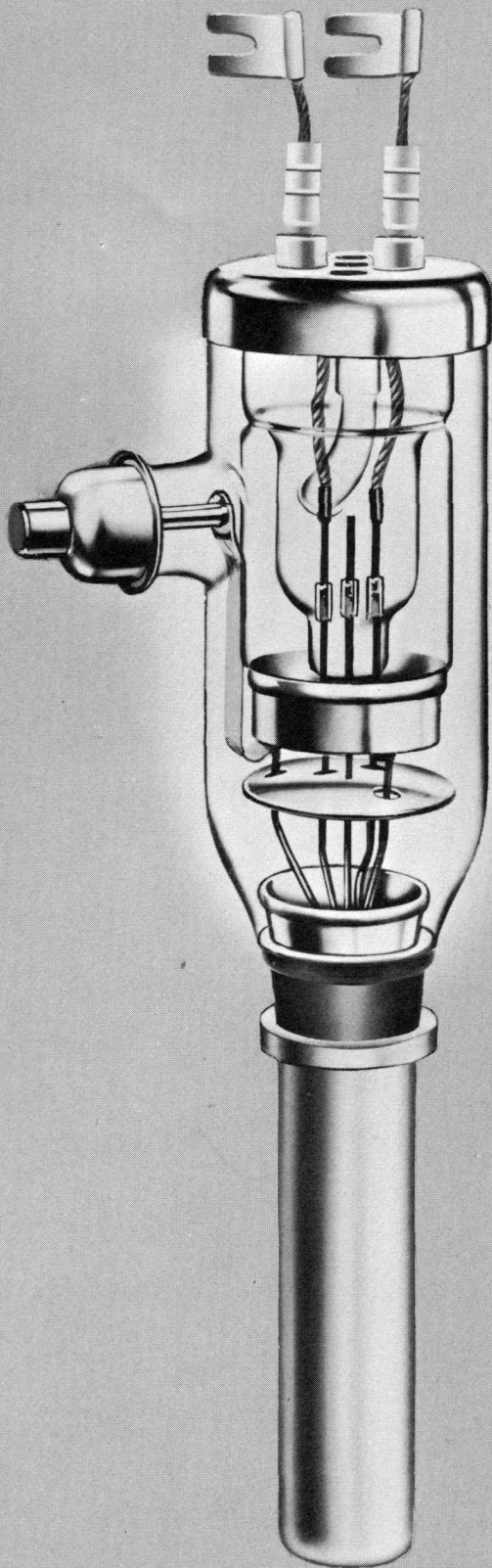


FEDERAL POWER TRIODE

Type F-631-A

25 Kilowatts Plate Dissipation



GENERAL DATA

DESCRIPTION:

Federal's F-631-A is a three-electrode tube designed for use as a radio-frequency power amplifier and Oscillator. The anode is water-cooled, capable of dissipating 25 kilowatts. The cathode is a pure tungsten filament. Maximum ratings apply up to 3 megacycles, with operation permissible up to 20 megacycles at reduced rating.

Electrical:

▶ Filament Voltage	28 Volts
▶ Filament Current	51 Amperes
▶ Filament Starting Current	102 Amperes
▶ Peak Cathode Current	12.5 Amperes
▶ Amplification Factor, at $I_b = 0.75$ amp. $E_c = -300$ volts	40
▶ Interelectrode Capacitances	
Grid-Plate	30 $\mu\mu\text{f}$
Grid-Filament	20 $\mu\mu\text{f}$
Plate-Filament	2.7 $\mu\mu\text{f}$

Mechanical:

▶ Mounting Position—	
Vertical, Anode Down	
▶ Type of Cooling—Water	
Water Flow on Anode	10 GPM
Maximum Outgoing Water	
Temperature	70° C
Maximum Glass Temperature	150° C
▶ Net Weight, approximate	4 Lbs.

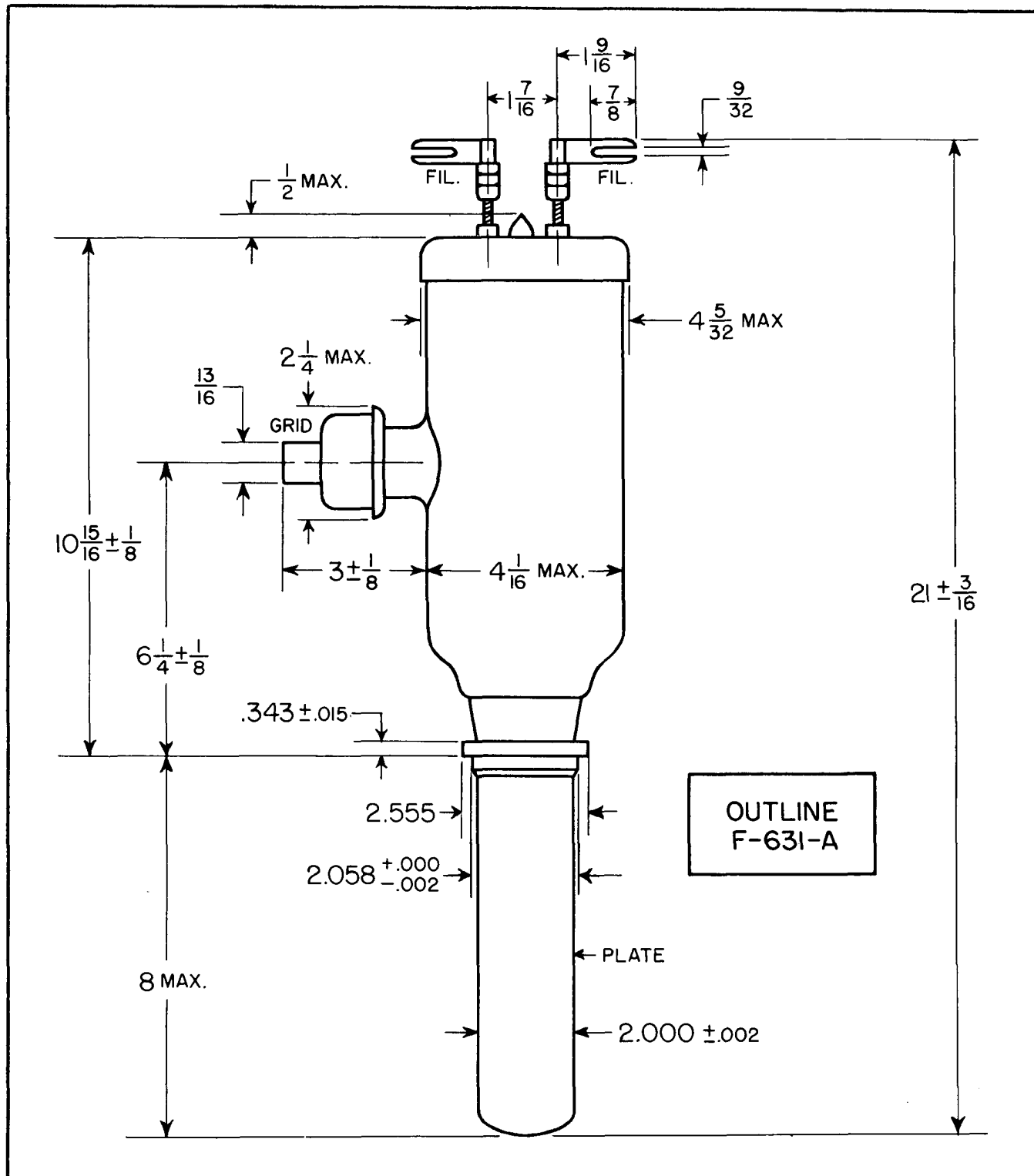
For Maximum Ratings, Typical Operating Conditions and Characteristic Curves, see Type F-110-X.

FEDERAL POWER TRIODE Type F-631-A

25 Kilowatts Plate Dissipation



That Federal tubes, by their performance, largely sell themselves, is a tribute to the product and to the manufacturer.



Federal Telephone and Radio Company

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Clifton, New Jersey