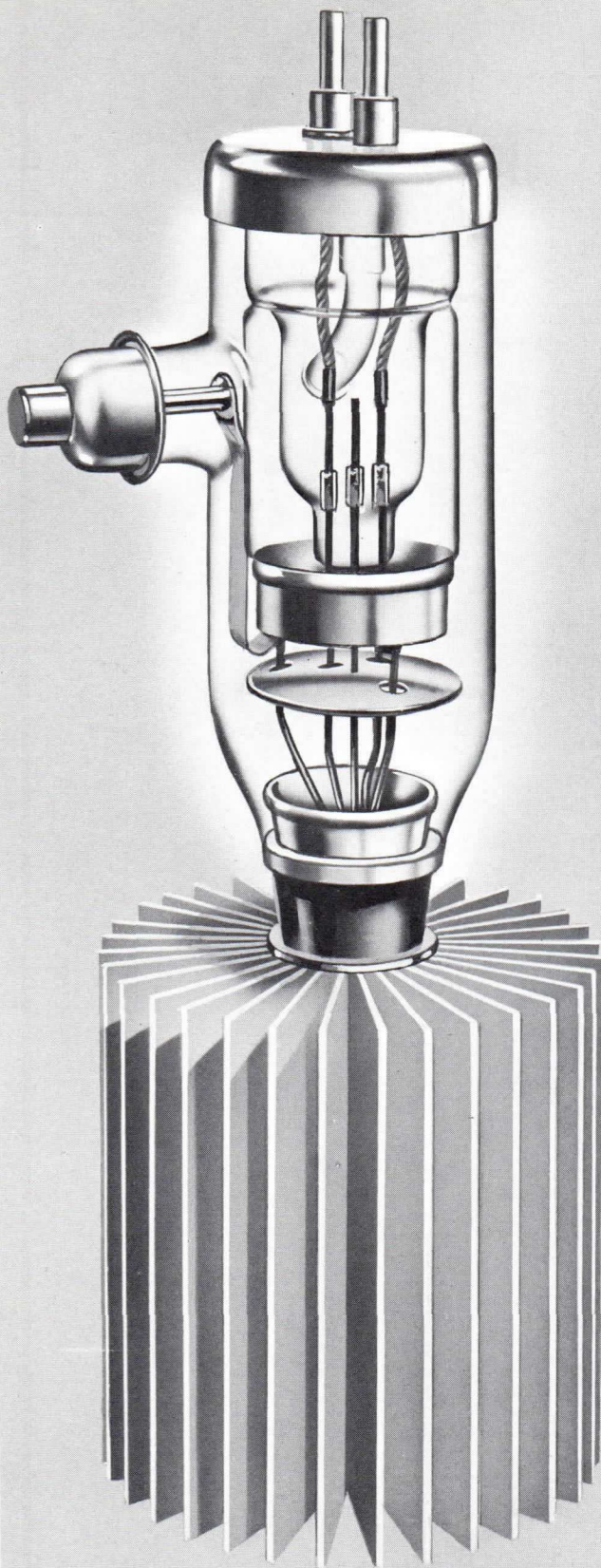


Now
F 220CA/320BA



FEDERAL POWER TRIODE

Type F-320BA/220CA

5 Kilowatts Plate Dissipation



GENERAL DATA

DESCRIPTION:

Federal's F-320BA/220CA is a three-electrode tube designed for use as an R-F Amplifier, Oscillator, or Class B Modulator. The anode, forced air-cooled, is capable of dissipating 5 kilowatts. The cathode is a pure tungsten filament. Maximum ratings apply up to 4 megacycles.

Electrical:

► Filament Voltage	21.5 Volts
► Filament Current	41.0 Amperes
► Filament Starting Current	82.0 Amperes
► Available Thermionic Emission	7.0 Amperes
► Amplification Factor, at $I_b = 0.85$ amps. $E_c = -50$ volts	40
► Interelectrode Capacitances	
Grid-Plate	23.5 $\mu\mu\text{f}$
Grid-Filament	17.5 $\mu\mu\text{f}$
Plate-Filament	1.6 $\mu\mu\text{f}$

Mechanical:

► Mounting Position— Vertical, Anode Down	
► Type of Cooling—Forced Air	
► Required Air Flow on Anode Plate Dissipation (Kilowatts)	5
Air Flow—Cubic Feet Per Minute	600
► Maximum Glass Temperature	150° C
► Net Weight, approximate	35 Lbs.

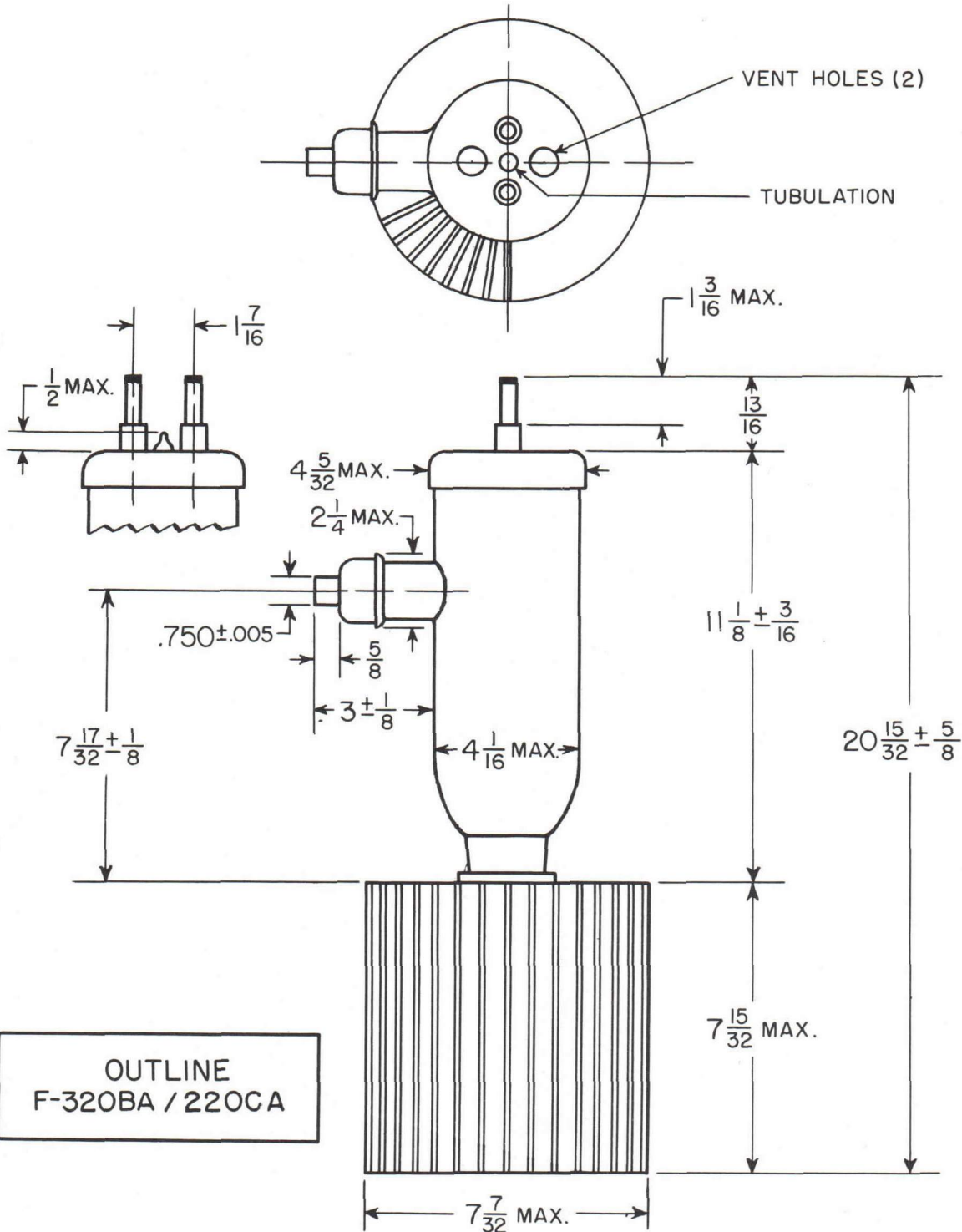
For Characteristic Curves see F-320-B. Except for reduction of plate dissipation to 5KW, Maximum Ratings and Typical Operation of F-320-B apply.

FEDERAL POWER TRIODE Type F-320BA/220CA

5 Kilowatts Plate Dissipation



Precision craftsmanship was initiated by Federal in the earliest days of tube manufacture, and has been maintained ever since.



Federal Telephone and Radio Company

100 Kingsland Road Clifton, New Jersey