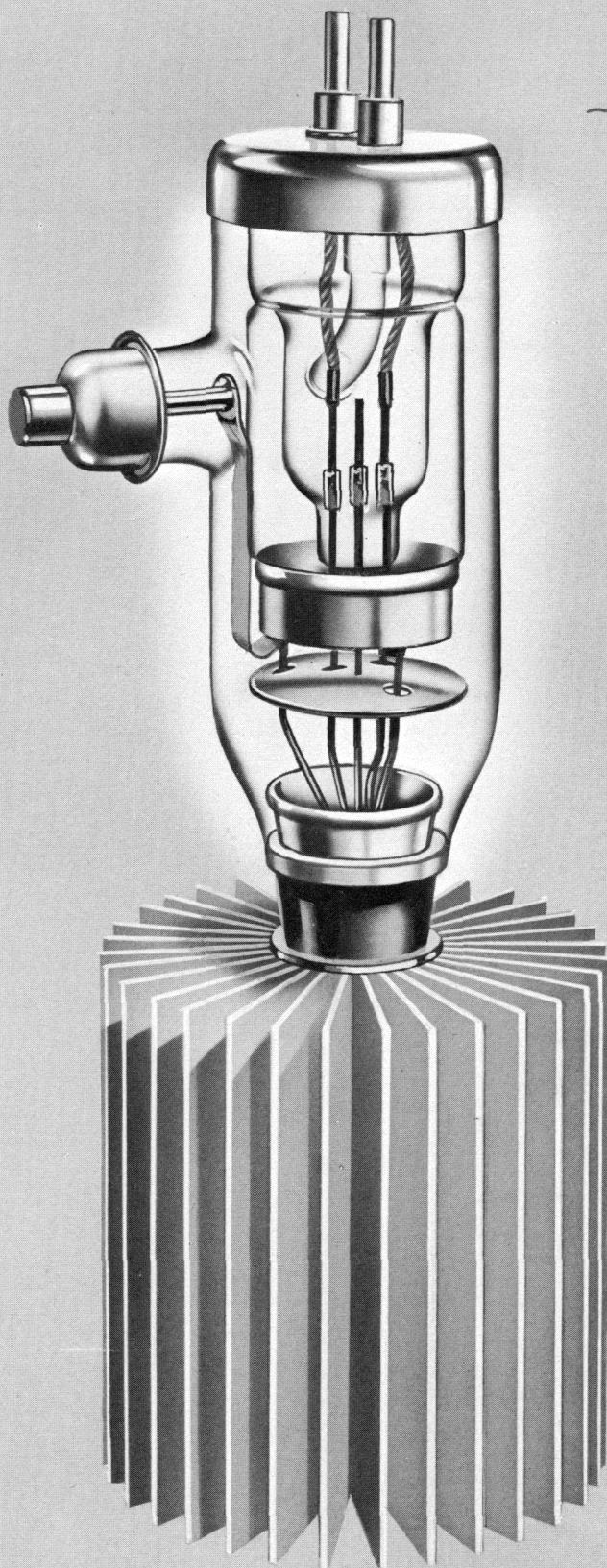


NOW
F 220CA/320BA



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.

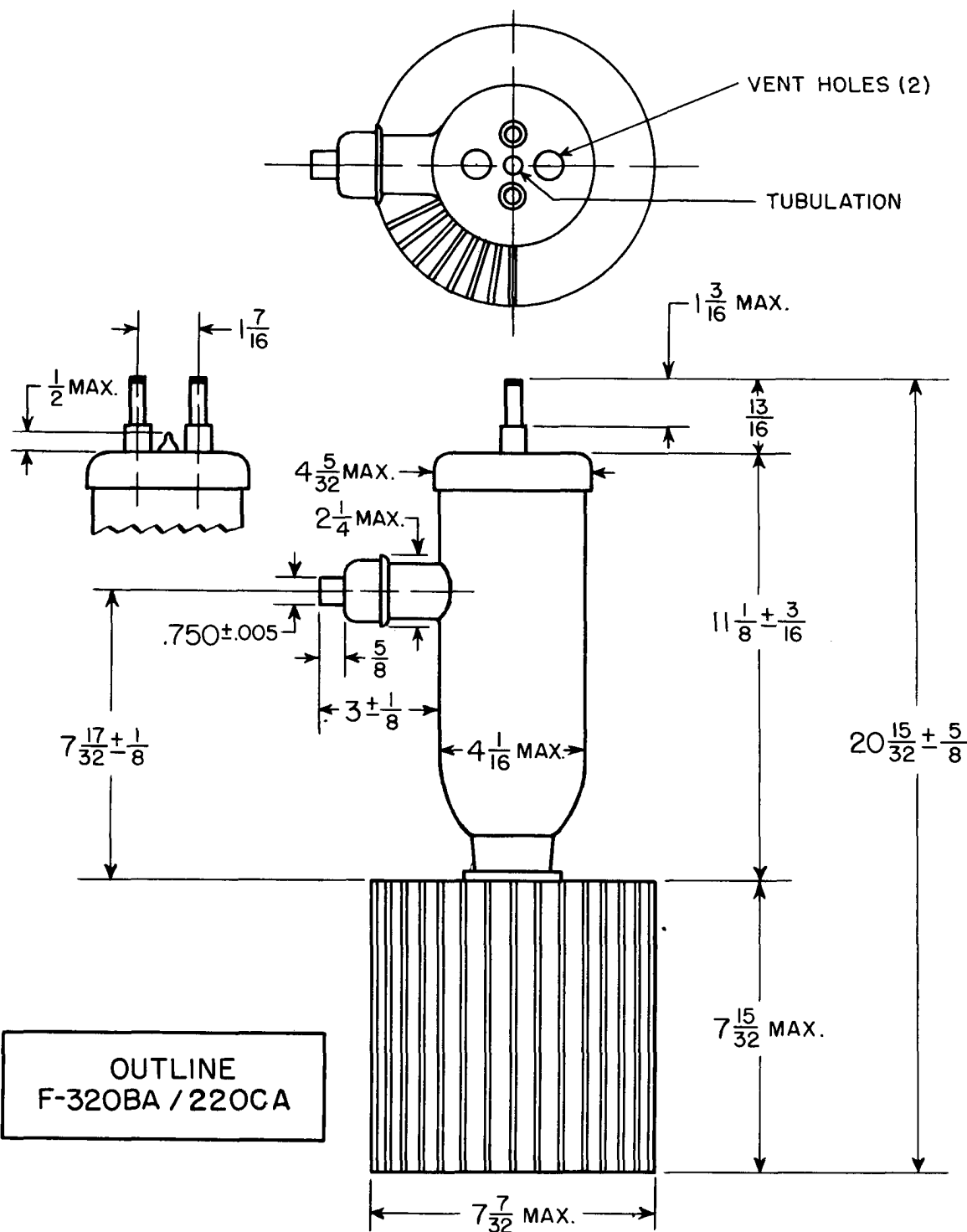
For Characteristic Curves see F-320-B. Except for reduction of plate dissipation to 5KW, Maximum Ratings and Typical Operation of F-320-B apply.

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

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