FEDERAL TELEGRAPH CO.

Federal Type F-102-A Vacuum Tube

RATINGS AND DATA

Main Use

General Purpose

No. of Electrodes

Filament Voltage

10 volts

Current

II amperes

Type

Tungsten

Average Characteristic Values calculated at

Eb = 1000, Ec = 0, Ef = 10 volts.

Plate Current

.150 amperes

Amplification Factor

Plate Resistance

5500 ohms

Mutual Conductance

1450 micromhos

Approximate Direct Inter-electrode Capacities

Plate to Grid

7 mmf.

Grid to Filament

3 mmf.

Plate to Filament

2 mmf.

Overall Dimensions

Maximum Length

11/8 inches

Minimum Length

101/8 inches

Maximum Diameter

31/8 inches

Type Base

Standard 50 Watt

Mounting Socket

Standard 50 Watt and

Anode Clip

Type of Cooling

Air

Operating Limits

Maximum Plate Voltage

3000 volts

Maximum D.C. Plate Current .225 amperes

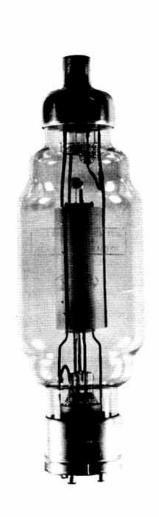
Maximum Plate Dissipation

175 watts

Maximum R.F. Grid Current 8 amperes

Maximum D.C. Grid Current .065 amperes

The above information by no means represents exact conditions of operation to be imposed for any particular situation. Tubes are used under many widely different conditions and consequently the manufacturer should be consulted for information regarding characteristics for design purposes.



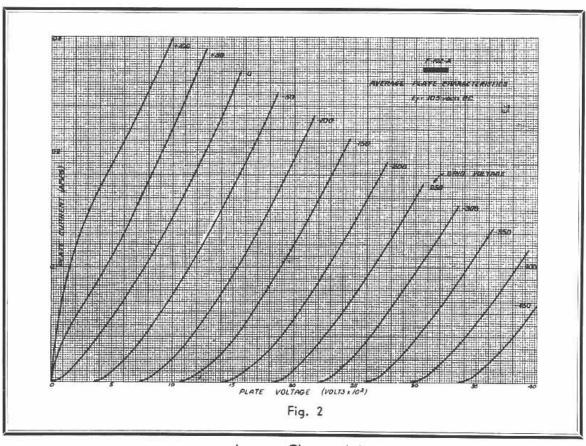
FEDERAL type F-102-A. is a ruggedly constructed medium power tube having an unusually wide range of application as oscillator, modulator and Radio Frequency amplifier. The anode is capable of 175 Watts dissipation. Pure tungsten filament enables the F-102-A to withstand abuse under which the average tube would become gassy or lose its emission.

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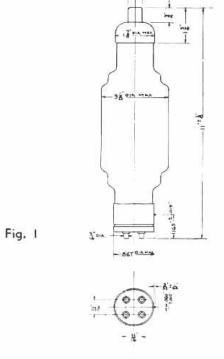
200 Mt. Pleasant Ave. Newark, N. J.

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Average Characteristics



Outline drawing