

50/n Vacuum Tube

Classification-Dome-type bulb of glass, a four-prong bayonet pin tube, oxide coated filamentary triode. Mesh plate, white ceramic base with gold pin.

Application-Audio frequency amplifier where power outputs of approximately 25 watts or less is required at relatively low plate voltages.

Dimensions-Dimensions, outline diagrams of the tube and bases, and the arrangement of electrode connections to the base terminals are shown in Figures 1 and 2.

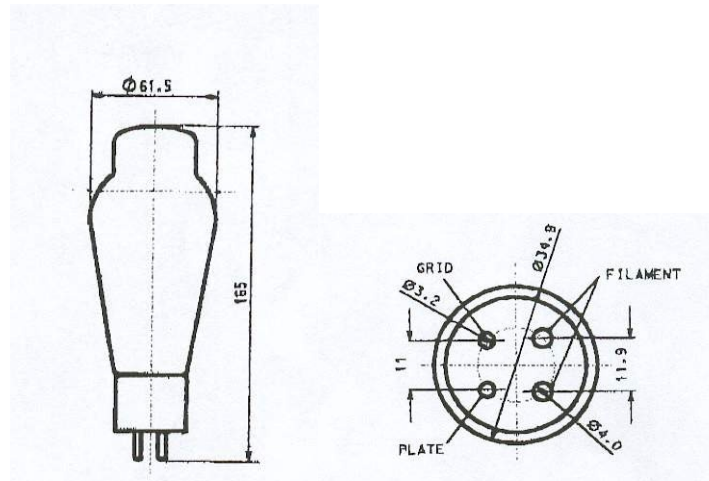


Fig.1

Fig.2

Nominal operating conditions and parameters

Filament voltage.....	7.5 V*
Nominal filament current.....	1.35 A
Plate voltage.....	460 V
Grid voltage.....	-84 V**
Grid voltage.....	-82 V***
Plate current.....	55 mA
Plate current.....	57 mA
Amplification factor.....	3.8
Grid current.....	0.05 μ A
Plate resistance.....	1800 ohms

* Alternating-current filament supply or Direct-current filament supply.

** Alternating-current filament supply is used. The grid and plate returns should be connected to a center tap on the secondary of the filament transformer.

*** Direct-current filament supply is used. The grid and platter returns are connected to the negative end of the filament.

Characteristics-Average characteristics

Figure 3. shown typical curves of plate currents of grid voltage for several values of plate voltages. It is alternating-current filament supply.

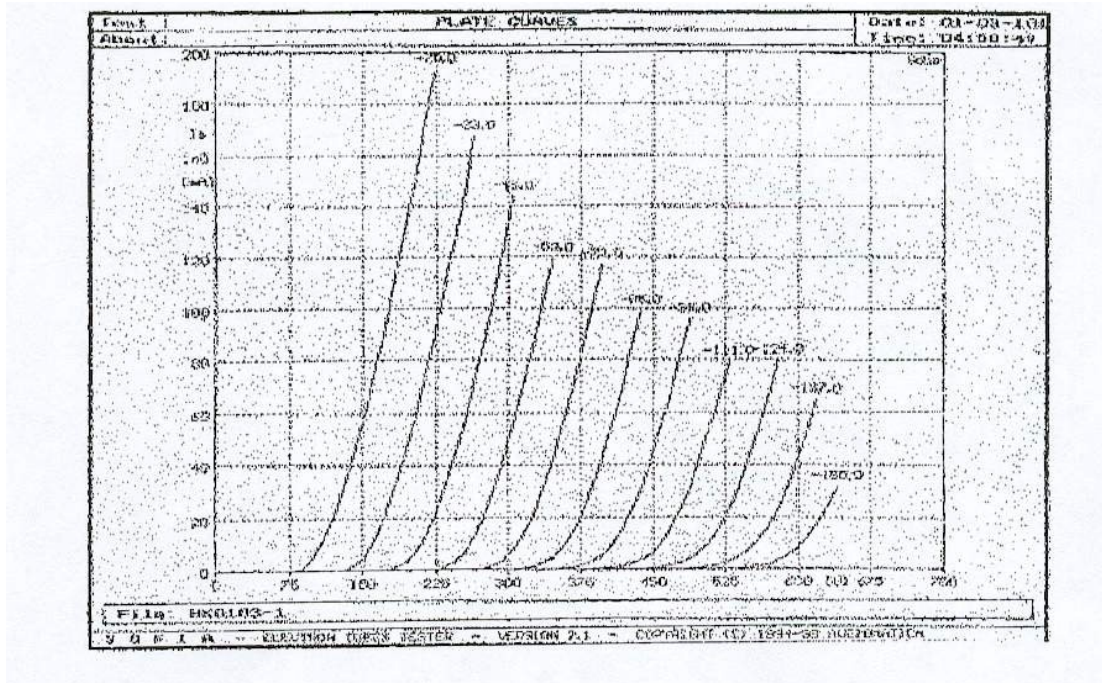


Fig.3

Limiting Operation Conditions for Safe simultaneous ratings

- Maximum plate voltage..... 450 volts
- Maximum plate dissipation..... 25 watts
- Maximum plate current of average tube for fixed grid bias.....70 mA
- Maximum plate current for manually adjusted grid bias or self-biasing circuit...100 mA