

*Full music***300B Vacuum Tube**

Classification-Dome-type and Globe type bulb of glass, a four-prong bayonet pin tube, oxide coated filamentary triode.

Application-Audio frequency amplifier where power outputs of approximately 10 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 1,2 and 3.

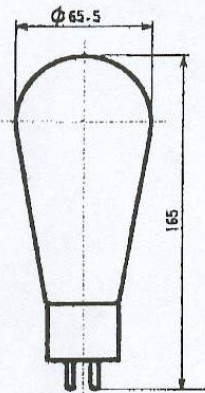


Fig. 1

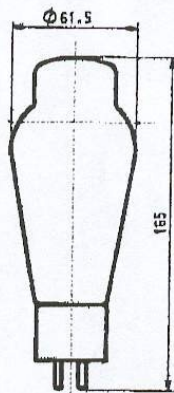


Fig. 2

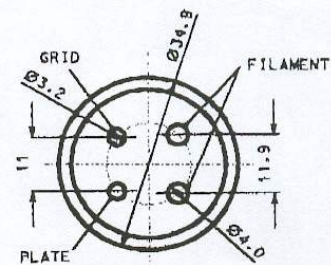


Fig. 3

Nominal operating conditions and parameters

Filament voltage.....	5.0 V*
Nominal filament current.....	1.2 A
Plate voltage.....	300 V
Grid voltage.....	-61V**
Grid voltage.....	-58 V***
Plate current.....	.60 mA
Plate current.....	.62.5 mA
Grid to plate transconductance.....	5700 micromhos
Amplification factor.....	3.85
Grid current.....	0.05 μ A
Plate resistance.....	700 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 plate returns are connected to the negative end of the filament.

Full music

Characteristics-Average characteristics

Figure 4. shown typical curves of plate currents as a function of grid voltage for several values of plate voltages. It is alternating-current filament supply.

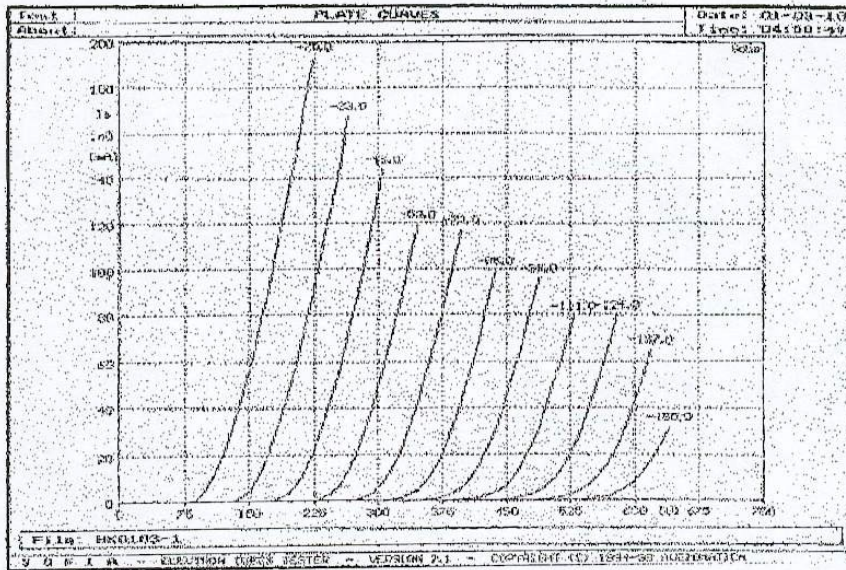


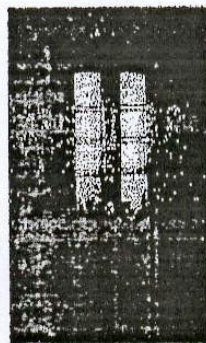
Fig 4

Limiting Operation Conditions for Safe Operation---nor simultaneous ratings

- Maximum plate voltage ----- 450 volts
- Maximum plate dissipation ----- 40 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



Dome Type



Globe Type (mesh plate)