

300B+ Vacuum Tube

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

Application-Audio frequency amplifier where power outputs of approximately over 18 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.

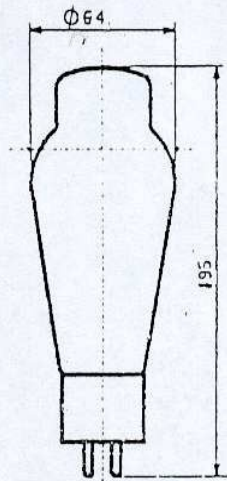


Fig. 1

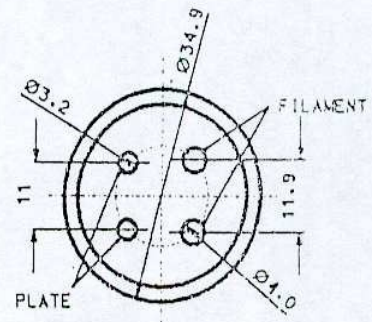


Fig 2

Nominal operating conditions and parameters

Filament voltage.....	5.0 V*
Nominal filament current.....	2.4 A
Plate voltage.....	300 V
Grid voltage.....	-70 V**
Plate current.....	120 mA
Grid to plate transconductance.....	8500 micromhos
Amplification factor.....	3.85
Grid current.....	0.05 μ A
Plate resistance.....	450 ohms
Load resistance.....	2000 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 3 shown typical curves of plate currents as a function of grid voltage for several values of plate voltages. It is alternating-current filament supply.

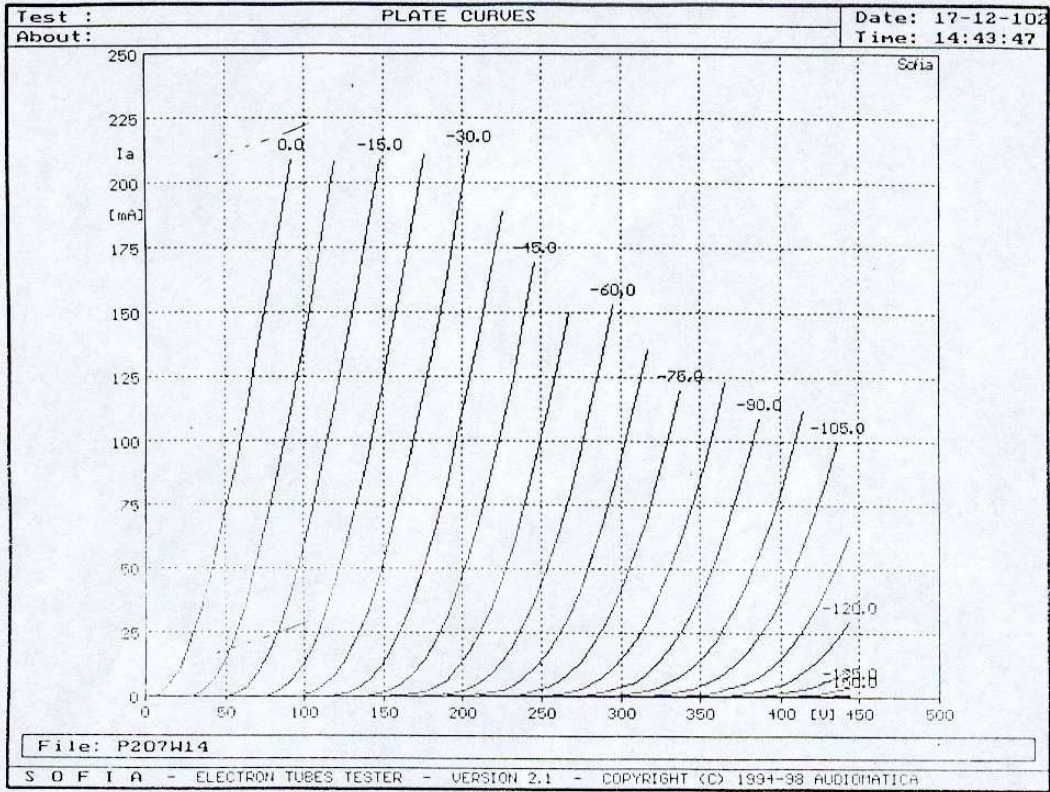


Fig 3

Limiting Operation Conditions for Safe Operation-nor simultaneous ratings

Maximum plate voltage 400 volts
Maximum plate dissipation 50 watts