Full music

274A/B /+Vacuum Tube

Classification-Dome type bulb of glass, a four-prong bayonet pin tube, comprises to oxide coated filamentary diode units of mesh plate.

Application-It is designed to supply direct current up to 250 milliamperes from an alternating current source.

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.

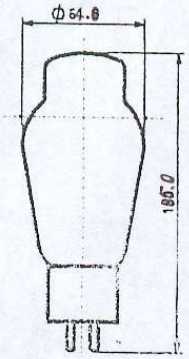
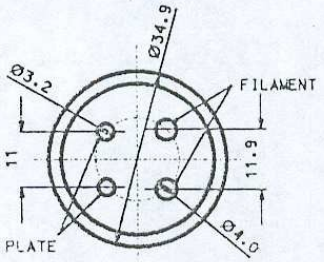
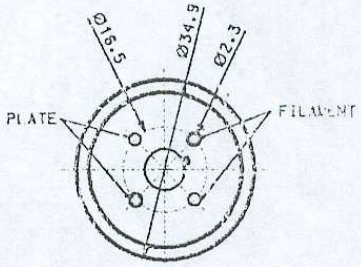


Fig. 1



274A



274B

Fig. 2

Nominal operating conditions and parameters

Filament voltage.....5.0 V*

Nominal filament current.....4.0 A

Choke-Input Filter

R-M-S Alternating voltage per plate.....550 V

Total rectified current.....200 mA

Condenser-Input Filter

R-M-S Alternating voltage per plate.....450 V

Total rectified current.....180 mA

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

Characteristics-Average characteristics

The current-voltage characteristic of a single diode unite is shown in Figure 3. Direct-voltage output characteristics are given in Figures 4.and 5.The characteristics of Figure 4 are for a choke-input filter such as is shown in circuit A and those of Figure 5 are for a condenser-input filter such as is shown in circuit B.

Limiting Operation Conditions for Safe Operation:

Choke-Input Filter:

BK37

Full music

I. Max. R-M-S Alternating Voltage per plate..... 550 volts
I. Max. Total Rectified Current..... 250mA

II. Max. R-M-S Alternating Voltage per plate..... 660 volts
II. Max Total Rectified Current.....200 mA

Condenser-Input Filter:

I. Max. R-M-S Alternating Voltage per plate..... 450 volts
I. Max. Total Rectified Current.....200 mA*

* 4μF. Maximum filter input capacitance

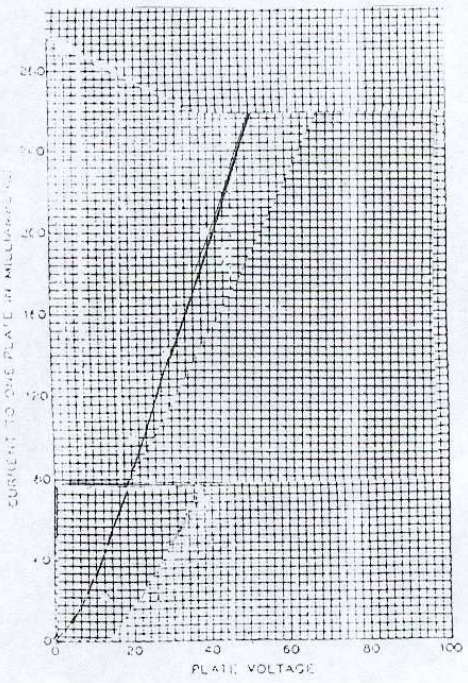


Fig. 3

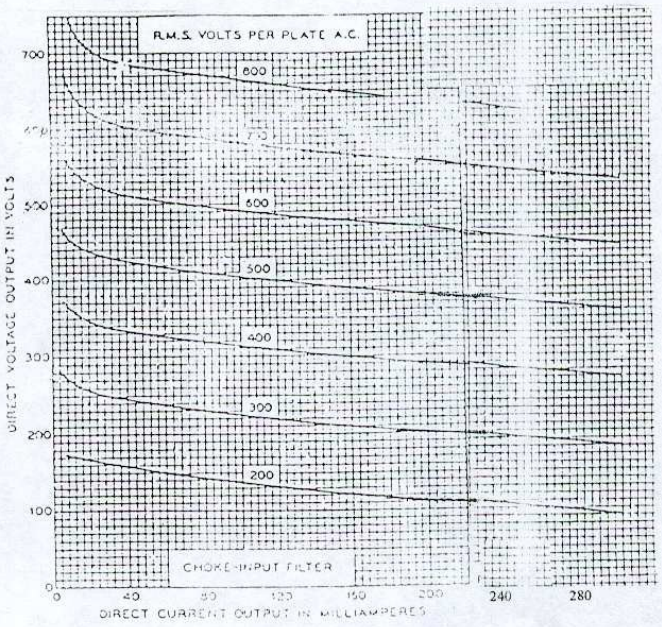


Fig. 4

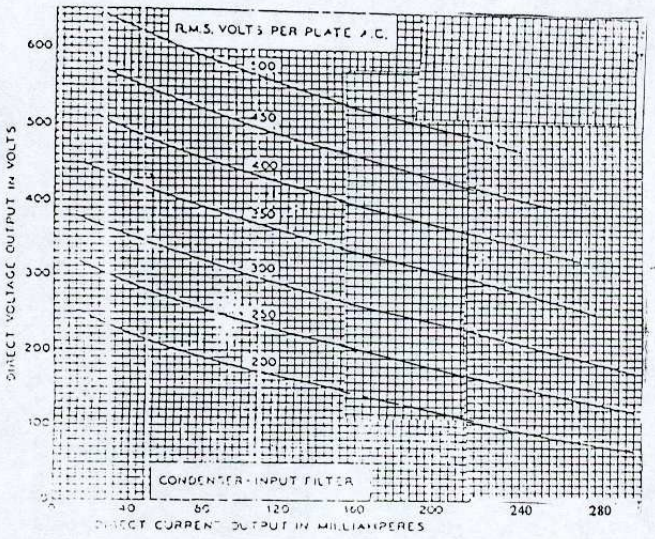
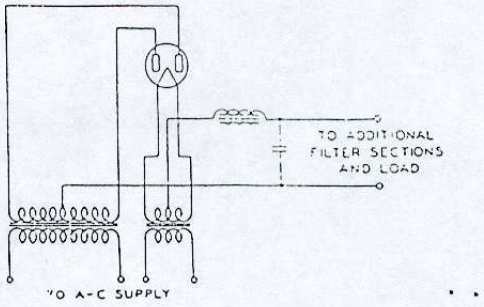
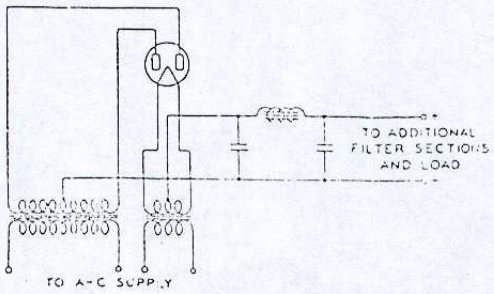


Fig. 5



CHOKE INPUT FILTER
CIRCUIT A



CONDENSER INPUT FILTER
CIRCUIT B