

Full music

274A/B Vacuum Tube

Classification-Dome type and Globe type bulb of glass, a four-prong bayonet pin tube, comprises to oxide coated filamentary diode units with a common filament.

Application-It is designed to supply direct current up to 200 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 1,2 and 3.

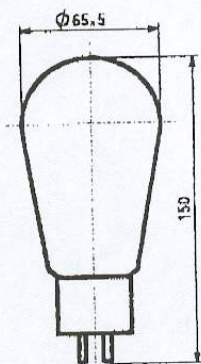


Fig 1

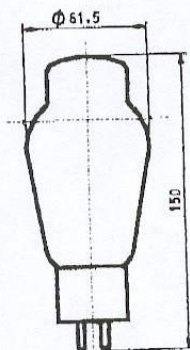
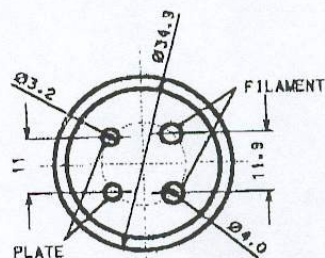
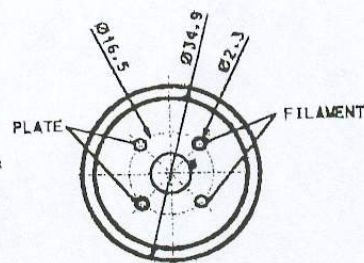


Fig 2



274A



274B

Fig 3

Nominal operating conditions and parameters

| | |
|-------------------------------|--------|
| Filament voltage..... | 5.0 V* |
| Nominal filament current..... | 2.0 A |

Choke-Input Filter

| | |
|--|--------|
| R-M-S Alternating voltage per plate..... | 550 V |
| Total rectified current..... | 160 mA |

Condenser-Input Filter

| | |
|--|--------|
| R-M-S Alternating voltage per plate..... | 450 V |
| Total rectified current..... | 140 mA |

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

Characteristics-Average characteristics

The current-voltage characteristic of a single diode unite of the 274A/B tube is shown in Figure 4. Direct-voltage output characteristics are given in Figures 5 and 6. The characteristics of Figure 5 are for a choke-input filter such as is shown in circuit A and those of Figure 6 are for a condenser-input filter such as is shown in circuit B.

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Limiting Operation Conditions for Safe Operation:

Choke-Input Filter:

I. Max. R-M-S Alternating Voltage per plate 550 volts
 I. Max. Total Rectified Current 200 mA

II. Max. R-M-S Alternating Voltage per plate 660 volts
 II. Max Total Rectified Current 160 mA

Condenser-Input Filter:

I. Max. R-M-S Alternating Voltage per plate 450 volts
 I. Max. Total Rectified Current 150 mA*

* 4 μ F. Maximum filter input capacitance

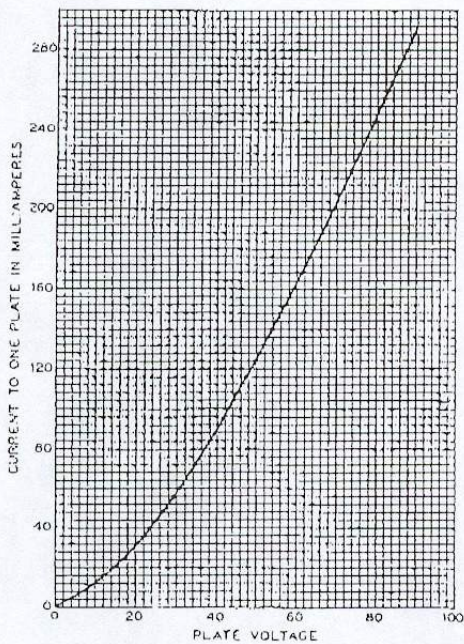


Fig 4

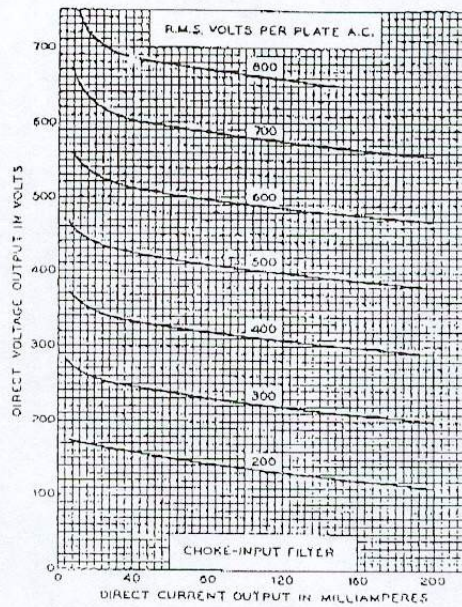


Fig 5

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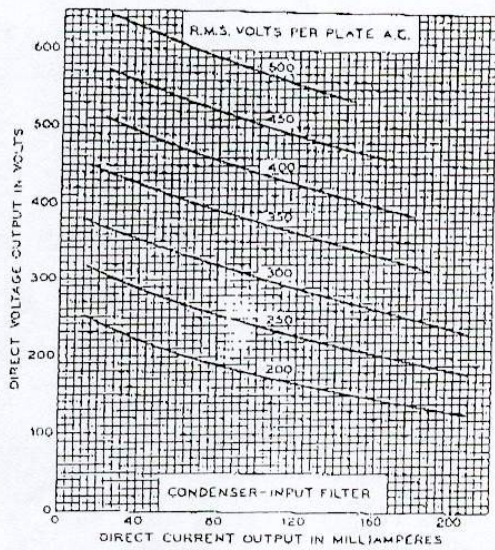
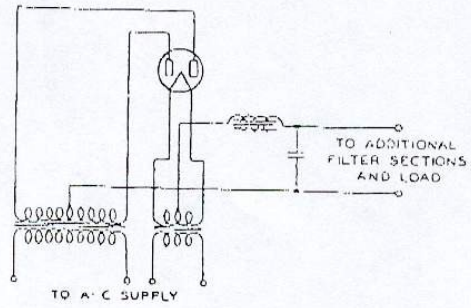
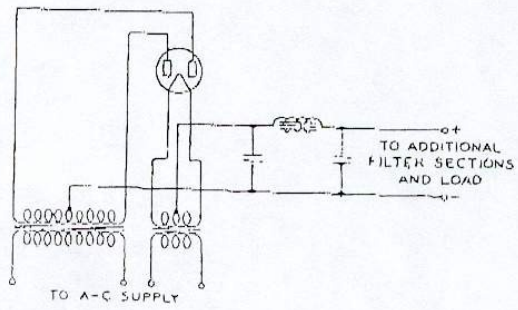


Fig. 6



CHOKE INPUT FILTER
CIRCUIT A



CONDENSER INPUT FILTER
CIRCUIT B