MINIATURE A.F. PENTODE

A low noise pentode for use in the early stages of high gain audio amplifiers.

RATINGS

Filament voltage : 6.3 V
Filament current : 0.2 A
Peak-heater-cathode voltage: 150 Max V
Anode voltage : 300 Max V
Grid No. 2 voltage : 200 Max V
Cathode current : 6 Max mA
Plate resistance at (plate volts = 250 V) = 2 megohms
(screen volts = 140 V) = 1850 umhos
Transconductance: (plate current = 3 mA) = 1850 umhos

CAPACITANCES: (Of Cold Externally Unscreened Valve)

Grid No. 1 to plate = 0.025 uuf
Grid No. 1 to heater = 0.0025 uuf
Input = 4.0 uuf
Output = 5.5 uuf

TYPICAL OPERATION

Anode volts 175 175 volts
Voltage gain 180 110
Cathode current 0.6 1.2 mA
Cathode resistor 2.2 1 K ohms
Grid resistor 1 0.47 megalohms
Plate resistor 0.220 0.1 megalohms

BASE CONNECTIONS AND TUBE DIMENSIONS

Base Connections - 9BJ
Pin 1 - #2 Grid
Pin 2 - Internal Screen
Pin 3 - Cathode
Pin 4 - Heater
Pin 5 - Heater
Pin 6 - Plate
Pin 7 - Internal Screen
Pin 8 - #3 Grid
Pin 9 - #1 Grid

Base: E9-1
Bulb: T6½
Maximum Overall Length: 2 3/16"
Maximum Seated Height: 1 15/16"
Maximum Diameter: 7/8"

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HUM - When used under the above conditions with the control grid returned to earth via a 470K resistor, the total hum voltage referred to the grid will not exceed 1.5uV. If A.C. heating is used the heater winding should be provided with a center-tap. A variable hum balancing resistor is not required.

MOUNTING - Any position.

RETAINING - The use of a retaining device is recommended.

SCREENING - The tube is internally screened. A separate screening canister may be used when the application demands.

MICROPHONY - The standard of microphony permits the use of the tube in the first stage of a high gain amplifier following a low level microphone or tape reproducer.