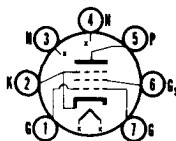
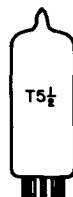


AUDIO POWER AMPLIFIER**50B5****Beam Power Pentode**

Construction Miniature T-5½
 Base Button 7 Pin, E7-1
 Basing 7BZ
 Outline 5-3
 Maximum Diameter 0.750 In.
 Maximum Seated Height 2.375 In.
 Maximum Overall Height 2.625 In.



7BZ

**ELECTRICAL DATA****HEATER OPERATION**

Heater Voltage.....	50 Volts
Heater Current.....	150 Ma
Maximum Heater-Cathode Voltage.....	180 Volts

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid to Plate.....	0.64 Pf
Input.....	13 Pf
Output.....	6.5 Pf

RATINGS (Design Center Rating System)

Plate Voltage (Max.).....	135 Volts
Grid No. 2 Voltage (Max.).....	117 Volts
Plate Dissipation (Max.).....	5.5 Watts
Grid No. 2 Dissipation (Max.).....	1.25 Watts

Control Grid Circuit Resistance

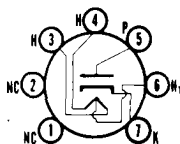
Fixed Bias (Max.).....	0.1 Megohm
Cathode Bias (Max.).....	0.5 Megohm

CHARACTERISTICS AND TYPICAL OPERATION**Class A1 Amplifier**

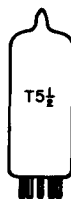
Plate Voltage.....	110 Volts
Grid No. 2 Voltage.....	110 Volts
Grid No. 1 Voltage.....	-7.5 Volts
Peak AF Grid No. 1 Voltage.....	7.5 Volts
Zero-Signal Plate Current.....	49 Ma
Maximum-Signal Plate Current.....	50 Ma
Zero-Signal Grid No. 2 Current.....	4.0 Ma
Maximum-Signal Grid No. 2 Current.....	8.5 Ma
Plate Resistance (Approx.).....	10,000 Ohms
Transconductance.....	7500 μ mhos
Load Resistance.....	2500 Ohms
Maximum Signal Power Output.....	1.9 Watts
Total Harmonic Distortion (Approx.).....	9.0 Percent

HALF-WAVE RECTIFIER**50DC4****Heater-Cathode Diode**

Construction Miniature T-5½
 Base Button 7 Pin, E7-1
 Basing 5BQ
 Outline 5-3
 Maximum Diameter 0.750 In.
 Maximum Seated Height 2.375 In.
 Maximum Overall Height 2.625 In.



5BQ

**ELECTRICAL DATA****HEATER OPERATION (Without Panel Lamp)**

Heater Voltage (AC or DC).....	50 Volts
Heater Tap Voltage.....	7.5 Volts
Heater Current.....	150 Ma
Maximum Heater-Cathode Voltage.....	
Heater Negative with Respect to Cathode.....	330 Volts
Heater Positive with Respect to Cathode.....	330 Volts

RATINGS (Design Maximum Rating System)**Rectifier Service**

Peak Inverse Plate Voltage (Max.)	330 Volts
Steady State Peak Plate Current (Max.)	720 Ma
DC Output Current	
Without Panel Lamp (Max.)	120 Ma
With Panel Lamp and Shunting Resistor (Max.)	110 Ma
Without Panel Lamp and No Shunting Resistor (Max.)	70 Ma
Heater-Tap Voltage When Panel Lamp Fails, RMS (Max.)	16.5 Volts

CHARACTERISTICS AND TYPICAL OPERATION**Half-Wave Rectifier with Panel Lamp Number 40 or Number 47**

Heater Voltage (Pin 3 to Pin 4)	45	45	45	45 Volts
Heater-Tap Voltage (Pin 4 to Pin 6)	5.5	5.5	5.5	5.5 Volts
Heater Current (Between Pins 3 and 6)	150	150	150	150 Ma
AC Plate-Supply Voltage, RMS	117	117	117	117 Volts
Filter Input Capacitor	40	40	40	40 μ f
Total Effective Plate-Supply Impedance	15	15	15	15 Ohms
Panel-Lamp Shunting Resistor	450	200	100	75 Ohms
DC Output Current	70	80	90	100 Ma

Half-Wave Rectifier without Panel Lamp

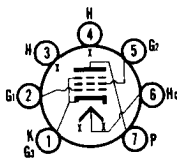
Heater Voltage (Pin 3 to Pin 4)	50 Volts
Heater-Tap Voltage (Pin 4 to Pin 6)	7.5 Volts
Heater Current (Between Pins 3 and 4)	150 Ma
AC Plate Supply Voltage, RMS	117 Volts
Filter Input Capacitor	40 μ f
Total Effective Plate Supply Impedance	15 Ohms
DC Output Current	110 Ma
DC Output Voltage at Filter Input (Approx.)	
For DC Output Current of 55 Ma	130 Volts
For DC Output Current of 110 Ma	110 Volts

Tube Voltage Drop

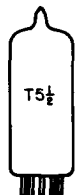
For $I_b = 240$ Ma DC	21 Volts
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50HC6**AUDIO POWER AMPLIFIER****Beam Power Pentode**

Construction	Miniature T-5½
Base	Button 7 Pin, E7-1
Basing	7FZ
Outline	5-3
Maximum Diameter	0.750 In.
Maximum Seated Height	2.375 In.
Maximum Overall Height	2.625 In.



7FZ

**ELECTRICAL DATA****HEATER OPERATION**

Heater Voltage	50 Volts
Heater Current	150 Ma
Heater Tap Voltage	7.0 Volts
Maximum Heater-Cathode Voltage	
Heater Negative with Respect to Cathode	
Total DC and Peak	200 Volts
Heater Positive with Respect to Cathode	
DC	100 Volts
Total DC and Peak	200 Volts

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid No. 1 to Plate	0.5 Pf
Input: g1 to (h + k + g2 + g3)	17 Pf
Output: p to (h + k + g2 + g3)	9.0 Pf

RATINGS (Design Maximum Rating System)

Heater-Tap Voltage when Panel Lamp Fails, RMS (Max.)	14 Volts
Plate Voltage (Max.)	150 Volts
Screen Voltage (Max.)	130 Volts
Plate Dissipation (Max.)	5.5 Watts
Screen Dissipation (Max.)	2.0 Watts