



6AD7-G



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TRIODE-POWER AMPLIFIER PENTODE

Heater	Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts
Current	0.85	amp.
Maximum Overall Length		4-5/8"
Maximum Seated Height		4-1/16"
Maximum Diameter		1-13/16"
Bulb		ST-14
Base	Medium Shell Octal 8-Pin	
Pin 1 - Triode Grid	Pin 5 - Pentode Grid	
Pin 2 - Heater	Pin 6 - Triode Plate	
Pin 3 - Pentode Plate	Pin 7 - Heater	
Pin 4 - Pentode Screen	Pin 8 - Cathode	
Mounting Position		Any



BOTTOM VIEW (8AY)

TRIODE UNIT

Plate Voltage	285 max.	volts
Plate Dissipation	1.0 max.	watt
<i>Characteristics - Class A₁ Amplifier:</i>		
Plate Voltage	250	volts
Grid Voltage	-25	volts
Amp. Factor	6	
Plate Res.	19000 approx.	ohms
Transcond.	325	μmhos
Plate Current	4	ma.

PENTODE UNIT

Plate Voltage	375 max.	volts
Screen Voltage	285 max.	volts
Plate Dissipation	8.5 max.	watts
Screen Dissipation	2.7 max.	watts
<i>Typical Operation and Characteristics - Class A₁ Amplifier:</i>		
Plate Voltage	250	volts
Screen Voltage	250	volts
Grid Voltage	-16.5	volts
Peak A-F Grid Voltage	16.5	volts
Zero-Sig. Plate Current	34	ma.
Max.-Sig. Plate Current	36	ma.
Zero-Sig. Screen Current	6.5	ma.
Max.-Sig. Screen Current	10.5	ma.
Plate Resistance	80000 approx.	ohms
Transconductance	2500	μmhos
Load Resistance	7000	ohms
Total Harmonic Distortion	8	%
Max.-Signal Power Output	3.2	watts

PUSH-PULL AMPLIFIER

Pentode Unit of 6AD7-G and a separate 6F6-G

Plate Voltage	375 max.	volts
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■ In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.

← Indicates a change.



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TRIODE-POWER AMPLIFIER PENTODE

(continued from preceding page)

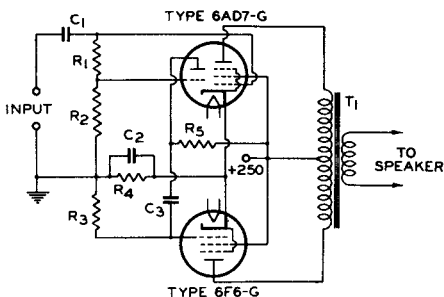
Screen Voltage	285 max.	volts
Plate Dissipation	8.5 max.	watts
Screen Dissipation	2.7 max.	watts

→ Typical Operation with Cathode Bias - Class AB₁ Amplifier:

Values are for pentode unit of 6AD7-G and 6F6-G together

Plate Voltage	250	285	375	volts
Screen Voltage	250	285	250	volts
Cathode Resistor	560	470	470	ohms
Peak A-F Grid to Grid Volt.	59	64	55	volts
Zero-Sig. Plate Current	36	47.5	41	ma.
Max.-Sig. Plate Current	41	54.5	50	ma.
Zero-Sig. Screen Current	6.7	8.2	6.7	ma.
Max.-Sig. Screen Current	11.7	13.7	9.2	ma.
Effec. Load Resistance (plate to plate)	14000	12000	16000	ohms
Total Harmonic Dist.	4	4	2	%
Max.-Sig. Power Output	6	8.5	9	watts

For curves of the pentode unit, refer to Type 6F6.

TYPICAL PUSH-PULL CIRCUIT WITH PHASE INVERTER
USING 6AD7-G AND 6F6-G

$R_1 = 330000$ OHMS
 $R_2 = 120000$ OHMS
 $R_3 = 470000$ OHMS
 $R_4 = 560$ OHMS
 $R_5 = 150000$ OHMS

$C_1 = 0.01$ μ f
 $C_2 = 25$ μ f
 $C_3 = 0.01$ μ f

$T_1 =$ OUTPUT TRANSFORMER:
 PLATE-TO-PLATE LOAD, 14000 OHMS

← Indicates a change.

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AVERAGE PLATE CHARACTERISTICS
TRIODE UNIT

6AD7-G

