

6AM5

POWER AMPLIFIER PENTODE

MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage	6.3	a.c. or d.c. volts
Current	0.2	amp.

Direct Interelectrode Capacitance (Approx.):

Grid to Plate	0.5 max.	pμF
Input	4.2	pμF
Output	3.2	pμF

Mechanical:

Mounting Position	Any
Maximum Overall Length	2-1/8"
Maximum Seated Height	1-15/16"
Maximum Diameter	3/4"
Bulb	T-5-1/2
Base	Miniature Button 7-Pin

Pin 1 - Grid No. 1

Pin 5 - Plate

Pin 2 - Cathode and
Grid No. 3

Pin 6 - No

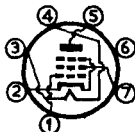
Connection

Pin 3 - Heater

Do not use

Pin 4 - Heater

Pin 7 - Grid No. 2



BOTTOM VIEW

AMPLIFIER - Class A₁

Pentode Connection

Maximum Ratings:

Plate Voltage	250 max. volts
Grid No. 2 (Screen) Voltage	250 max. volts
Plate Dissipation	4 max. watts
Grid No. 2 (Screen) Dissipation	0.6 max. watt
Plate Current	25 max. mA
Peak Heater-Cathode Voltage	50 max. volts

Typical Operation and Characteristics:

Single Valve Amplifier - Class A₁

Plate Voltage	200	250 volts
Grid No. 2 (Screen) Voltage	200	250 volts
Grid No. 1 (Control) Voltage	-7.5	-13.5 volts
Cathode Bias Resistance	330	750 ohms
Peak A.F. Grid No. 1 Voltage	-	7.5 volts
Plate Current	20	16 mA
Grid No. 2 Current	3	2.4 mA
Plate Resistance	-	0.15 megohm

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Mutual Conductance	-	2,600	μ mhos
Amplification Factor	-	390	
Load Resistance	10,000	16,000	ohms
Total Harmonic Distortion	7	10	%
Max.-Sig. Power Output	1.25	1.4	watts

Push Pull Amplifier - Class AB₁

Values are for two valves

	<u>Cathode Bias</u>	<u>Fixed Bias</u>	
Plate Voltage	250	250	volts
Grid No. 2 (Screen) Voltage	250	250	volts
Grid No. 1 (Control) Voltage	-	-19	volts
Cathode Bias Resistance	600	-	ohms
Peak A.F. Grid No. 1 Voltage	34	37	volts
Zero-Sig. Plate Current	22	10	mA
Max.-Sig. Plate Current	25.6	32	mA
Zero-Sig. Grid No. 2 Current	3.2	1.3	mA
Max.-Sig. Grid No. 2 Current	8.2	9	mA
Load Resistance	24,000	20,000	ohms
Total Harmonic Distortion	3.2	3.3	%
Max.-Sig. Power Output	4	4.8	watts

Amplifier - Class A₁

Triode Connection #

Maximum Ratings:

Plate Voltage	250 max.	volts
Plate Dissipation	4.6 max.	watts
Plate Resistance †	3,850	ohms
Mutual Conductance †	3,000	μ mhos
Amplification Factor †	11.5	

Screen tied to plate at socket

† Measured at Ebb = 250V E_{c1} = -12V.