7-PIN
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6AS5

Maximum Ratings (Design Center Values)

Beam Pentode

Plate Voltage	150 V
Grid No. 2 Voltage	117 V
Plate Dissipation	5.5 W
Grid No. 2 Dissipation	1.0 W
Grid No. 1 Circuit Resistance	
Fixed Bias	100K Ω
Self Bias	500K Ω
Bulb Temperature (At Hottest Point)	250 °C

Characteristics and Typical Operation

Class A Amplifier

Plate Voltage	150 V
Grid No. 2 Voltage	110 V
Grid No. 1 Voltage	-8.5 V
Peak Grid No. 1 Voltage	8.5 V
Transconductance	5600 μʊ
Plate Current (Zero Signal)	35 mA
Plate Current (Maximum Signal)	36 mA
Grid No. 2 Current (Zero Signal)	2 mA
Grid No. 2 Current (Maximum Signal)	6.5 mA
Load Resistance	4.5K Ω
Power Output (approx)	2.2 W
Total Harmonic Distortion	10 %

6CU5

Maximum Ratings (Design Center Values)

Beam Pentode

Plate Voltage	150 V
Grid No. 2 Voltage	130 V
Plate Dissipation	7 W
Grid No. 2 Dissipation	1.4 W

Characteristics and Typical Operation

Class A Amplifier

Plate Voltage	120 V
Grid No. 2 Voltage	110 V
Grid No. 1 Voltage	-8 V
Plate Resistance (approx)	10K Ω
Transconductance	7500 μʊ
Plate Current	50 mA
Grid No. 2 Current (Zero Signal)	4 mA
Grid No. 2 Current (Maximum Signal)	8.5 mA
Load Resistance	2.5K Ω
Power Output (approx)	2.3 W

6CA5

Maximum Ratings (Design Center Values)

Beam Pentode

Plate Voltage	130 V
Grid No. 2 Voltage	130 V
Plate Dissipation	5.0 W
Grid No. 2 Dissipation	1.4 W

Characteristics and Typical Operation

Class A Amplifier

Plate Voltage	125 V
Grid No. 2 Voltage	125 V
Grid No. 1 Voltage	-4.5 V
Peak Grid No. 1 Voltage	4.5 V
Amplification Factor	37
Plate Resistance (approx)	15K Ω
Transconductance	9200 μ℧
Plate Current (Zero Signal)	37 mA
Plate Current (Maximum Signal)	36 mA
Grid No. 2 Current (Zero Signal)	4 mA
Grid No. 2 Current (Maximum Signal)	11 mA
Load Resistance	4.5K Ω
Power Output (approx)	1.5 W

Characteristics and Typical Operation

Class A Amplifier

Plate Voltage	110 V
Grid No. 2 Voltage	110 V
Grid No. 1 Voltage	-4 V
Peak Grid No. 1 Voltage	4 V
Plate Resistance (approx)	16K Ω
Transconductance	8100 μ℧
Plate Current (Zero Signal)	32 mA
Plate Current (Maximum Signal)	31 mA
Grid No. 2 Current (Zero Signal)	3.5 mA
Grid No. 2 Current (Maximum Signal)	7.5 mA
Load Resistance	3.5K Ω
Power Output (approx)	1.1 W

6EH5

Maximum Ratings (Design Center Values)

Pentode

Plate Voltage	150 V
Grid No. 2 Voltage	130 V
Plate Dissipation	5.5 W
Grid No. 2 Dissipation	2 W

Characteristics and Typical Operation

Class A Amplifier

Plate Voltage	135 V
Grid No. 2 Voltage	117 V
Grid No. 1 Voltage	0 V
Plate Resistance (approx)	11K Ω
Transconductance	14.6K μʊ
Plate Current	42 mA
Grid No. 2 Current	14.5 mA
Load Resistance	3K Ω
Power Output (approx)	1.4 W

Characteristics and Typical Operation

Class A Amplifier

Plate Voltage	110 V
Grid No. 2 Voltage	115 V
Grid No. 1 Voltage Derived from	
Cathode Bias Resistor	62 Ω
Peak Grid No. 1 Voltage	3 V
Plate Resistance (approx)	11K Ω
Transconductance	14.6K μʊ
Plate Current (Zero Signal)	42 mA
Plate Current (Maximum Signal)	42 mA
Grid No. 2 Current (Zero Signal)	11.5 mA
Grid No. 2 Current (Maximum Signal)	14.5 mA
Load Resistance	3K Ω
Power Output (approx)	1.4 W

6GZ5

Maximum Ratings (Design Center Values)

Pentode

Plate Voltage	300 V
Grid No. 2 Voltage	300 V
Plate Dissipation	4.8 W
Grid No. 2 Dissipation	1.1 W

Characteristics and Typical Operation

Class A Amplifier

Plate Voltage	250 V
Grid No. 2 Voltage	250 V
Grid No. 1 Voltage Derived from	
Cathode Bias Resistor	270 Ω
Plate Resistance (approx)	150K Ω
Transconductance	8400 μʊ
Plate Current	16 mA
Grid No. 2 Current	2.7 mA
Load Resistance	15K Ω
Power Output (approx)	1.1 W