



ELECTRONIC TUBE REFERENCE

6AS5

Power - Beam Single (NOT sweep) (under 10W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Miniature beam-power output tube designed for audio amplifiers in automobile and AC-operated radio receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7	BASE PINS	7
NOMINAL HEATER	6.3 V / 800 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
TRANSCONDUCTANCE	0.0056 S
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM SCREEN VOLTAGE	117 V
MAXIMUM PLATE DISSIPATION	5.5 W
MAXIMUM SCREEN DISSIPATION	1 W
MAXIMUM HEATER-CATHODE VOLTAGE	90 V
<i>Promoted from published ratings/characteristics; identical repeated sections compressed where applicable.</i>	

Miniature beam-power output tube for automobile and AC-operated radio receiver audio amplifiers.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

Published test conditions and operating points. Values on this page are preserved as reported by this source.

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	150 V	ClassA
Screen voltage	110 V	ClassA
Control-grid voltage	-8.5 V	ClassA
Plate current	35 mA	ClassA
Screen current	2 mA	ClassA
Load resistance	4500 Ω	ClassA
Power output	2.2 W	ClassA



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1961 TUNG SOL

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	800 mA	—
Plate voltage	150 V	ClassA1
Grid 2 voltage	110 V	ClassA1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power output	2.2 W	ClassA1
Total harmonic distortion	10 percent	ClassA1



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1966 Tung Sol Electronic Tubes 1 of 4

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

Section 1 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published table
Heater current	800 mA	Published table

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	150 V	ClassA
Screen voltage	110 V	ClassA
Grid bias	-8.5 V	ClassA
Zero-signal plate current	35 mA	ClassA
Maximum-signal plate current	36 mA	ClassA
Maximum-signal screen current	6.5 mA	ClassA



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1968 General Electric Co

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1968 GENERAL ELECTRIC CO

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum-Signal Power Output	2.2 W	ClassA



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1975 RCA RC30

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1975 RCA RC30

Section 1 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage (ac/dc)	6.3 V	Published in approved 6AS5 target entry; Section1
Heater Current	800 mA	Published in approved 6AS5 target entry; Section1
Grid No.1 to Plate	0.6 pF	Published in approved 6AS5 target entry; Section1
Grid No.1 to Cathode, Heater, Grid No.2, and Grid No.3	12 pF	Published in approved 6AS5 target entry; Section1
Plate to Cathode, Heater, Grid No.2, and Grid No.3	9 pF	Published in approved 6AS5 target entry; Section1
Plate-Supply Voltage	135 V	Published in approved 6AS5 target entry; Section1
Cathode-Bias Posistor"	250 Ω	Published in approved 6AS5 target entry; Section1
Plate Resistance (Approx.)	280 Ω	Published in approved 6AS5 target entry; Section1
Transconductance	7000 μS	Published in approved 6AS5 target entry; Section1
Plate Current	125 mA	Published in approved 6AS5 target entry; Section1

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	150 V	Published in approved 6AS5 target entry; Section1
Grid-No.2 (Screen-Grid) Voltage	117 V	Published in approved 6AS5 target entry; Section1
Plate Dissipation	5.5 W	Published in approved 6AS5 target entry; Section1
Grid-No.2 Input	1 W	Published in approved 6AS5 target entry; Section1
Grid-No.2 Voltage	110 V	Published in approved 6AS5 target entry; Section1
Grid-No.1 (Control-Grid) Voltage	-8.5 V	Published in approved 6AS5 target entry; Section1
Peak AF Grid-No.1 Voltage	8.5 V	Published in approved 6AS5 target entry; Section1
Zero-Signal Plate Current	35 mA	Published in approved 6AS5 target entry; Section1
Maximum-Signal Plate Current	36 mA	Published in approved 6AS5 target entry; Section1
Zero-Signal Grid-No.2 Current (Approx.)	2 mA	Published in approved 6AS5 target entry; Section1
Maximum-Signal Grid-No.2 Current (Approx.)	6.5 mA	Published in approved 6AS5 target entry; Section1
Transconductance	5600 μ S	Published in approved 6AS5 target entry; Section1
Load Resistance	4500 Ω	Published in approved 6AS5 target entry; Section1
TotalHarmonic Distortion	10 %	Published in approved 6AS5 target entry; Section1
Maximum-Signal Power Output	2.2 W	Published in approved 6AS5 target entry; Section1
For cathode-bias operation	0.5 M Ω	Published in approved 6AS5 target entry; Section1
Heater Voltage (ac/dc)	6.3 V	Published in approved 6AS5 target entry; Section1
Plate Voltage	250 V	Published in approved 6AS5 target entry; Section1
Plate Current	125 mA	Published in approved 6AS5 target entry; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Dissipation	13 W	Published in approved 6AS5 target entry; Section1
Peak Negative-Pulse Plate Voltage*	1700 V	Published in approved 6AS5 target entry; Section1
DC Plate Current	125 mA	Published in approved 6AS5 target entry; Section1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to plate	10.5 pF	Published in approved 6AS5 target entry; Section1
Grid to heater and cathode	6.8 pF	Published in approved 6AS5 target entry; Section1
Plate to heater and cathode	2.3 pF	Published in approved 6AS5 target entry; Section1
Heater to cathode	11 pF	Published in approved 6AS5 target entry; Section1
Grid of unit No. 1 to grid of unit No. 2	0.7 pF	Published in approved 6AS5 target entry; Section1
Plate of unit No. 1 to plate of unit No. 2	1.65 pF	Published in approved 6AS5 target entry; Section1

TUBE TINKER

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