



ELECTRONIC TUBE REFERENCE

1G5G

Power - Pentode Single (NOT beam) (under 10W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
PENTODE

Directly heated power pentode for battery receiver output, providing approximately 0.3 W Class-A loudspeaker power.

GENERAL CHARACTERISTICS

BASE DESIGNATION	6X-0-0	BASE PINS	7
NOMINAL HEATER	2 V / 120 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	160000 Ω
TRANSCONDUCTANCE	0.00155 S
AMPLIFICATION FACTOR	200
MAXIMUM PLATE VOLTAGE	135 V
MAXIMUM SCREEN VOLTAGE	135 V
MAXIMUM PLATE DISSIPATION	1.25 W
MAXIMUM SCREEN DISSIPATION	0.6 W
<i>Promoted characteristics use first listed Class A1 condition (90 V).</i>	

Directly heated power-amplifier pentode for Class A service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Raytheon Radio Receiving Tubes

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

1937 RAYTHEON RADIO RECEIVING TUBES

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	90 V	Published ratings
Maximum Screen Voltage	90 V	Published ratings
Plate Voltage	90 V	ClassA
Screen Voltage	90 V	ClassA
Amplification Factor	200	ClassA
Plate Resistance	0.133 Mohm	ClassA
Transconductance	1500 uS	ClassA
Plate Current	8.5	ClassA
Screen Current	2.7	ClassA
Load Resistance	8000	ClassA
Power Output	0.3	ClassA



SOURCE OPERATING CONDITIONS

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1950 Sylvania

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

1950 SYLVANIA

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	90 V	ClassA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen Voltage	90 V	ClassA
Power Output	0.3 W	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	8.5 mA	—

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	135 V	—
Maximum screen-grid voltage	135 V	—
Plate voltage	135 V	ClassA
Screen-grid voltage	135 V	ClassA
Control-grid voltage	-13.5 V	ClassA
Plate current	8.7 mA	ClassA
Screen-grid current	2.5 mA	ClassA
Plate resistance	160000 Ohm	ClassA
Transconductance	1550 uS	ClassA
Load resistance	9000 Ohm	ClassA
Power output	0.55 W	ClassA
Plate voltage	90 V	ClassA 90V
Screen-grid voltage	90 V	ClassA 90V
Control-grid voltage	-6 V	ClassA 90V
Plate current	8.5 mA	ClassA 90V

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen-grid current	2.5 mA	ClassA 90V
Plate resistance	133000 Ohm	ClassA 90V
Transconductance	1500 uS	ClassA 90V
Load resistance	8500 Ohm	ClassA 90V
Power output	0.25 W	ClassA 90V



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	2 V	Nominal
Filament Current	120 mA	Nominal
Plate Voltage	90 V	ClassA1;PlateVoltage=90V
Screen Voltage	90 V	ClassA1;PlateVoltage=90V
Control Grid Voltage	-6 V	ClassA1;PlateVoltage=90V
PeakAFSignalVoltage	6 V	ClassA1;PlateVoltage=90V
Zero Signal Plate Current	8.5 mA	ClassA1;PlateVoltage=90V
Zero Signal Screen Current	2.5 mA	ClassA1;PlateVoltage=90V
Maximum Signal Plate Current	8.7 mA	ClassA1;PlateVoltage=90V
Maximum Signal Screen Current	3 mA	ClassA1;PlateVoltage=90V
Load Resistance	8500 ohm	ClassA1;PlateVoltage=90V
Total Harmonic Distortion	6 %	ClassA1;PlateVoltage=90V
Second Harmonic Distortion	3 %	ClassA1;PlateVoltage=90V
Third Harmonic Distortion	5 %	ClassA1;PlateVoltage=90V
Power Output	0.25 W	ClassA1;PlateVoltage=90V
Plate Voltage	124 V	ClassA1;PlateVoltage=124V

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen Voltage	124 V	ClassA1;PlateVoltage=124V
Control Grid Voltage	-11 V	ClassA1;PlateVoltage=124V
PeakAFSignalVoltage	9.9 V	ClassA1;PlateVoltage=124V
Zero Signal Plate Current	10 mA	ClassA1;PlateVoltage=124V
Zero Signal Screen Current	3 mA	ClassA1;PlateVoltage=124V
Maximum Signal Plate Current	10.7 mA	ClassA1;PlateVoltage=124V
Maximum Signal Screen Current	4.3 mA	ClassA1;PlateVoltage=124V
Load Resistance	8000 ohm	ClassA1;PlateVoltage=124V
Total Harmonic Distortion	10.5 %	ClassA1;PlateVoltage=124V
Second Harmonic Distortion	7 %	ClassA1;PlateVoltage=124V
Third Harmonic Distortion	7.5 %	ClassA1;PlateVoltage=124V
Power Output	0.6 W	ClassA1;PlateVoltage=124V
Plate Voltage	135 V	ClassA1;PlateVoltage=135V
Screen Voltage	135 V	ClassA1;PlateVoltage=135V
Control Grid Voltage	-13.5 V	ClassA1;PlateVoltage=135V
PeakAFSignalVoltage	9.2 V	ClassA1;PlateVoltage=135V
Zero Signal Plate Current	8.7 mA	ClassA1;PlateVoltage=135V
Zero Signal Screen Current	2.5 mA	ClassA1;PlateVoltage=135V
Maximum Signal Plate Current	9.7 mA	ClassA1;PlateVoltage=135V
Maximum Signal Screen Current	3.6 mA	ClassA1;PlateVoltage=135V
Load Resistance	9000 ohm	ClassA1;PlateVoltage=135V
Total Harmonic Distortion	11 %	ClassA1;PlateVoltage=135V
Second Harmonic Distortion	8 %	ClassA1;PlateVoltage=135V
Third Harmonic Distortion	7 %	ClassA1;PlateVoltage=135V
Power Output	0.55 W	ClassA1;PlateVoltage=135V
Power Output	0.65 W	PeakAFGridVoltage=11V;TotalDistortion=13%
Power Output	0.75 W	PeakAFGridVoltage=13.5V;TotalDistortion=18%

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	133000 ohm	ClassA1;PlateVoltage=90V

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	1500 μS	ClassA1;PlateVoltage=90V
Plate Resistance	145000 ohm	ClassA1;PlateVoltage=124V
Transconductance	1500 μS	ClassA1;PlateVoltage=124V
Plate Resistance	160000 ohm	ClassA1;PlateVoltage=135V
Transconductance	1550 μS	ClassA1;PlateVoltage=135V

TUBE TINKER

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and their source documents.

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