



ELECTRONIC TUBE REFERENCE

1J5G

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Directly heated battery power pentode capable of roughly 0.45 W Class-A audio output from approximately 135 V.

GENERAL CHARACTERISTICS

BASE DESIGNATION	6X	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	105300 Ω
TRANSCONDUCTANCE	0.00095 S
AMPLIFICATION FACTOR	100
MAXIMUM PLATE VOLTAGE	135 V
MAXIMUM SCREEN VOLTAGE	135 V
Reference/equivalence-style source: ratings and characteristics stated identical with type 950; external values not imported.	

1J5G is listed as a power-amplifier pentode in the supplied receiving-tube handbook. It uses a 2.0 V, 0.12 A directly heated filament. The handbook publishes maximum ratings and representative operating characteristics for its intended service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Ken Rad

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

1937 KEN RAD

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen Voltage	135 V	Screen Voltage 135 Volts Max.
Grid Voltage	-16.5 V	Grid Voltage -16.5 Volts
Plate Current	4 mA	Plate Current 7.0 Milliamperes
Screen Current	2 mA	Screen Current 2.0 Milliamperes
Mutual Conductance	950 μ S	Mutual Conductance 950 Micromhos
Load Resistance	13500 ohm	Load Resistance 13,500 Ohms
Power Output	0.45 W	Power Output 0.45 Watt
Amplification Factor	100 ratio	Amplification Factor 100



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
R – lMaximum Plate Voltage	135 V	Published ratings
Maximum Screen Voltage	135 V	Published ratings
Plate Voltage	135 V	ClassA
Screen Voltage	1356 V	ClassA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	100	ClassA
Plate Resistance	0.1 Mohm	ClassA
Transconductance	1000 uS	ClassA
Plate Current	7 mA	ClassA
Screen Current	2 mA	ClassA
Load Resistance	13500 ohm	ClassA
Power Output	0.45 W	ClassA
Maximum Signal Voltage (RMS)	11.7 V	ClassA



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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
Filament Voltage	2 V	—
Filament Current	120 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Equivalent Type	950	—



SOURCE DATA APPENDIX

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	Published handbook rating
Maximum screen voltage	135 V	Published handbook rating
Plate voltage	135 V	ClassA
Screen voltage	135 V	ClassA
Control-grid voltage	16.5 V	ClassA
Plate current	7 mA	ClassA
Screen current	2 mA	ClassA
Load resistance	135000 ohm	ClassA
Power output	0.45 W	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	105300 ohm	Published handbook characteristic
Transconductance	950 μ S	Published handbook characteristic
Filament voltage	2 V	DirectlyHeated DC filament
Filament current	120 mA	DirectlyHeated DC filament



1961 Tung Sol

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

1961 TUNG SOL

Characteristic		
Parameter	Published Value	Condition / Note
Transconductance	950 μ S	PublishedOnReferenceSheet

TUBE TINKER

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and their source documents.

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