



ELECTRONIC TUBE REFERENCE

950

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Two-volt directly heated battery power pentode equivalent to 1J5G, providing approximately 0.45 W audio output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5K	BASE PINS	5
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
MAXIMUM PLATE VOLTAGE	135 V
MAXIMUM SCREEN VOLTAGE	135 V
<i>Published sheet states ratings are identical to 1U5G but does not print their numeric maxima; they were not inferred.</i>	

Two-volt power pentode. The French Sylvania sheet states that Type 950 is equivalent to Type 1J5G and refers to that type for operating characteristics and applications.

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
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	13500 Ω	ClassA
Power output	450 mW	ClassA
Maximum signal voltage RMS	11.7 V	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	100000 Ω	ClassA
Transconductance	1000 μS	ClassA
Amplification factor	100	ClassA

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	2 V	—
Filament Current	120 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Equivalent Type	1J5G	—



SOURCE DATA APPENDIX

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

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 bias	16.5 V	ClassA
Plate current	7 mA	ClassA
Screen current	2 mA	ClassA
Load resistance	13500 ohm	ClassA
Power output	0.45 W	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	105300 ohm	Published handbook characteristic

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	2 V	Published heater/filament rating
Heater/filament current	120 mA	Published heater/filament rating



SOURCE DATA APPENDIX

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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	2 V	—
Heater current	120 mA	—
Plate voltage	135 V	ClassA1
Screen voltage	135 V	ClassA1
Plate current	7 mA	ClassA1
Screen current	2 mA	ClassA1
Load resistance	13500 ohm	ClassA1
Power output	0.45 W	ClassA1