



ELECTRONIC TUBE REFERENCE

35EH5

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
PENTODE

Power pentode designed for audio-frequency output service with a 35 V, 150 mA heater. Manufacturer data provide ratings, characteristics, and typical operating conditions for receiver audio power stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7-pin miniature	BASE PINS	7
NOMINAL HEATER	35 V / 150 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	12000 Ω
TRANSCONDUCTANCE	0.0075 S
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM SCREEN VOLTAGE	130 V
MAXIMUM PLATE DISSIPATION	5.5 W
MAXIMUM SCREEN DISSIPATION	1 W
MAXIMUM CATHODE CURRENT	100 mA
Published promoted fields populated by semantic section ownership.	

Power pentode intended for audio output service. It uses a nominal 35 V, 0.15 A heater. The supplied datasheet was used for ratings, characteristics, and typical operating data.



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
Plate Voltage	110 V	Typical
Screen Voltage	110 V	Typical
Power Output	1.8 W	MaximumSignal



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Westinghouse Data Book

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

1965 WESTINGHOUSE DATA BOOK

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	35 V	—
Heater Current	150 mA	—
Transconductance	12000 μ S	—
Input Capacitance	9 pF	—
Output Capacitance	8.5 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	110 V	ClassA
Screen Voltage	110 V	ClassA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid Voltage	-5 V	ClassA
Plate Current	50 mA	ClassA
Screen Current	7 mA	ClassA
Load Resistance	2200 ohm	ClassA
Power Output	1.2 W	ClassA



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 3 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	14000 ohm	Published datasheet value
Transconductance	12000 μ S	Published datasheet value
InterelectrodeCapacitanceDataPublished	1 boolean	See supplied datasheet capacitance table

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaxPlateVoltage	150 V	Published datasheet value
MaxScreenVoltage	130 V	Published datasheet value
MaxPlateDissipation	5 W	Published datasheet value
MaxScreenDissipation	1.75 W	Published datasheet value
Heater Voltage	35 V	Nominal heater rating
Heater Current	150 mA	Nominal heater rating



SOURCE DATA APPENDIX

1971 RCA HB3 Binder 5 of 7

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

1971 RCA HB3 BINDER 5 OF 7
Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	150 V	—
Maximum Screen Voltage	130 V	—
Plate Dissipation	5 W	—
Screen Input	1.75 W	—
Screen Supply Voltage	115 V	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	14000 Ω	—
Transconductance	12000 μS	—

TUBE TINKER

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and their source documents.

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