

ELECTRONIC TUBE REFERENCE

6A4

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Directly heated audio power pentode for automobile and receiver output stages, usable singly or in push-pull.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5B	BASE PINS	5
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	45400 Ω
TRANSCONDUCTANCE	0.0022 S
AMPLIFICATION FACTOR	100
MAXIMUM PLATE VOLTAGE	180 V
MAXIMUM SCREEN VOLTAGE	180 V
MAXIMUM CATHODE CURRENT	26 mA
Published maximum ratings and representative operating characteristics reviewed.	

Directly heated output pentode intended especially for DC operation and automobile receivers, usable singly or in push-pull output stages.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1940 RCA

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

1940 RCA

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	300 mA	Nominal
Maximum Plate Voltage	180 V	—
Maximum Screen Voltage	180 V	—
Maximum Cathode Current	26 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2200 μ S	Typical
Amplification Factor	100	Typical
Plate Resistance	453500 ohm	Typical

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	60000 ohm	—
Transconductance	2500 μ S	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	150	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	180 V	—
Maximum Screen Voltage	180 V	—
Power Output	1.5 W	—
Load Resistance	8000 ohm	—


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

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	180 V	Published handbook rating
Maximum screen voltage	180 V	Published handbook rating
Plate voltage	180 V	ClassA
Screen voltage	180 V	ClassA
Control-grid bias	12 V	ClassA
Plate current	22 mA	ClassA
Screen current	3.9 mA	ClassA
Load resistance	8000 ohm	ClassA
Power output	1.4 W	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	45400 ohm	Published handbook characteristic

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2200 μS	Published handbook characteristic
Heater/filament voltage	6.3 V	Published heater/filament rating
Heater/filament current	300 mA	Published heater/filament rating

TUBE TINKER

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