



ELECTRONIC TUBE REFERENCE

1V5

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Power/output pentode designed for Class-A, single-ended, or push-pull audio-frequency output amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8CP	BASE PINS	8
NOMINAL HEATER	1.25 V / 40 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	150000 Ω
TRANSCONDUCTANCE	0.00075 S
MAXIMUM PLATE VOLTAGE	100 V
MAXIMUM SCREEN VOLTAGE	100 V
Directly heated power-amplifier pentode for low-voltage battery-operated output stages.	

A directly heated output pentode for very small radio sets and amplifiers, with low filament power and operation from battery supplies.

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
Plate voltage	67.5 V	ClassA; OperatingPoint1
Screen voltage	67.5 V	ClassA; OperatingPoint1
Control-grid bias	4.5 V	ClassA; OperatingPoint1
Plate current	2 mA	ClassA; OperatingPoint1
Screen current	0.4 mA	ClassA; OperatingPoint1
Load resistance	25000 ohm	ClassA; OperatingPoint1
Power output	0.05 W	ClassA; OperatingPoint1
Plate voltage	45 V	ClassA; OperatingPoint2
Screen voltage	45 V	ClassA; OperatingPoint2
Control-grid bias	3 V	ClassA; OperatingPoint2
Plate current	1 mA	ClassA; OperatingPoint2
Screen current	0.2 mA	ClassA; OperatingPoint2
Load resistance	40000 ohm	ClassA; OperatingPoint2
Power output	0.015 W	ClassA; OperatingPoint2
Plate voltage	30 V	ClassA; OperatingPoint3
Screen voltage	30 V	ClassA; OperatingPoint3
Control-grid bias	2 V	ClassA; OperatingPoint3
Plate current	0.5 mA	ClassA; OperatingPoint3
Screen current	0.1 mA	ClassA; OperatingPoint3
Load resistance	50000 ohm	ClassA; OperatingPoint3
Power output	0.005 W	ClassA; OperatingPoint3

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	100 V	—
Maximum screen voltage	100 V	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	150000 ohm	ClassA; OperatingPoint1
Transconductance	750 uS	ClassA; OperatingPoint1
Plate resistance	175000 ohm	ClassA; OperatingPoint2
Transconductance	600 uS	ClassA; OperatingPoint2
Plate resistance	200000 ohm	ClassA; OperatingPoint3
Transconductance	450 uS	ClassA; OperatingPoint3

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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