



ELECTRONIC TUBE REFERENCE

1W5

Voltage - Pentode Sharp Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Subminiature directly heated sharp-cutoff RF pentode for compact battery-powered high-frequency receiver stages.

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	700000 Ω
TRANSCONDUCTANCE	0.000735 S
MAXIMUM PLATE VOLTAGE	100 V
MAXIMUM SCREEN VOLTAGE	100 V
Directly heated sharp-cutoff RF pentode for low-voltage amplifier service.	

A directly heated sharp-cutoff RF pentode for very small radio sets and amplifiers, suitable for battery operation and using low filament power.

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	2.3 pF	—
Output capacitance	3 pF	—
Grid-to-plate capacitance	0.009 pF	—
Plate resistance	700000 ohm	ClassA; OperatingPoint1
Transconductance	735 uS	ClassA; OperatingPoint1
Plate resistance	700000 ohm	ClassA; OperatingPoint2
Transconductance	430 uS	ClassA; OperatingPoint2

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	67.5 V	ClassA; OperatingPoint1
Screen voltage	67.5 V	ClassA; OperatingPoint1
Control-grid bias	0 V	ClassA; OperatingPoint1
Plate current	1.85 mA	ClassA; OperatingPoint1
Screen current	0.75 mA	ClassA; OperatingPoint1
Plate voltage	30 V	ClassA; OperatingPoint2
Screen voltage	30 V	ClassA; OperatingPoint2
Control-grid bias	0 V	ClassA; OperatingPoint2
Plate current	0.45 mA	ClassA; OperatingPoint2
Screen current	0.16 mA	ClassA; OperatingPoint2
Maximum plate voltage	100 V	—
Maximum screen voltage	100 V	—

TUBE TINKER

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

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker