



ELECTRONIC TUBE REFERENCE

8084

Voltage - Pentode Sharp Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Frame-grid sharp-cutoff VHF pentode designed for frequency multiplication, amplification, and oscillator service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	13.5 V / 160 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
TRANSCONDUCTANCE	0.012 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	2.3 W
MAXIMUM SCREEN DISSIPATION	0.5 W
MAXIMUM CATHODE CURRENT	20 mA
<i>Published electrical limits and characteristics promoted from the approved source; non-schema quantities are retained in TUBE_SECTION_PARAMETER.</i>	

Frame-grid sharp-cutoff VHF pentode for frequency multiplier, amplifier, and oscillator service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1947 Westinghouse

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

1947 WESTINGHOUSE

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	13.5 V	Nominal
MaximumPlateOrOperatingVoltage	250 V	—
Maximum Screen Voltage	200 V	—
Heater Voltage	13.5 V	Nominal

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	12000 μ S	Typical
FrequencyMultiplierServiceMaximum	75 MHz	Tripler service



SOURCE OPERATING CONDITIONS

1965 Sylvania Electronic Tubes Vol3

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

1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	13.5 V	—
Heater Current	160 mA	—
Heater Voltage Minimum	11.8 V	—
Heater Voltage Maximum	15.5 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid To Plate Capacitance	0.04 pF	—
Input Capacitance	8 pF	—
Output Capacitance	3 pF	—
Plate Voltage	125 V	—
Screen Voltage	80 V	—
Grid Voltage	-1 V	—
Transconductance	10500 uS	—
GridCutoffBias	-3.5 V	—
Plate Current	7 mA	—
Screen Current	1.7 mA	—
FrameGridConstruction	1 boolean	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power Output	0.45 W	ClassC;FrequencyTripler;75MHz
MaximumOperatingFrequency	75 MHz	FrequencyTripler

TUBE TINKER

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

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