

ELECTRONIC TUBE REFERENCE

8425

Voltage - Pentode Sharp Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Sharp-cutoff pentode designed for RF, IF, wide-band, or high-frequency voltage-amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	1100000 Ω
TRANSCONDUCTANCE	0.0062 S
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	3.5 W
MAXIMUM SCREEN DISSIPATION	0.75 W
Published ratings and characteristics promoted from the approved Westinghouse source.	

Sharp-cutoff pentode for wide-band IF/RF amplification with high transconductance-to-current ratio.



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

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	WideBand_IF_RF_Amplifier text	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TriodeConnectedAmplificationFactor	41 ratio	TriodeConnection



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	6.3 V	—
Heater Current	300 mA	—
GridToPlateCapacitanceMaximum	0.003 pF	—
Input Capacitance	5.9 pF	—
Output Capacitance	5.1 pF	—
Plate Voltage	250 V	—
Screen Voltage	150 V	—
Cathode Bias Resistance	68 ohm	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	6200 uS	—
Plate Resistance	1100000 ohm	—
Plate Current	10.5 mA	—
Screen Current	4.1 mA	—
GridCutoffBias	-5.8 V	—
TriodeConnectedPlateVoltage	250 V	TriodeConnection
TriodeConnectedCathodeResistance	330 ohm	TriodeConnection
TriodeConnectedAmplificationFactor	41	TriodeConnection
TriodeConnectedTransconductance	6000 uS	TriodeConnection
TriodeConnectedPlateCurrent	11.2 mA	TriodeConnection

TUBE TINKER

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and their source documents.

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