

ELECTRONIC TUBE REFERENCE

1P5G

Voltage - Pentode Remote Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Remote-cutoff RF pentode designed for variable-gain battery receiver service. Its directly heated construction combines low filament demand with controlled transconductance for automatic-gain-control RF stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5Y	BASE PINS	7
NOMINAL HEATER	1.4 V / 50 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	800000 Ω
TRANSCONDUCTANCE	0.00075 S
AMPLIFICATION FACTOR	640
MAXIMUM PLATE VOLTAGE	110 V
MAXIMUM SCREEN VOLTAGE	110 V
Source-defined physical/function section.	

Remote-cutoff RF pentode for variable-gain battery receiver service. Electrical ratings and representative operating data were extracted from the approved manual page.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Ken Rad

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

1937 KEN RAD

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	90 V	Plate Voltage 90 Volts
Screen Voltage	90 V	Screen Voltage 90 Volts
Grid Voltage	0 V	Grid Voltage* 0 Volts
Plate Current	2.3 mA	Plate Current 2.3 Milliamperes
Screen Current	7 mA	Screen Current .7 Milliampere
Mutual Conductance	800 μ S	Mutual Conductance 800 Micromhos
Mutual Conductance	10 V	Mutual Conductance at E_c ; = -12 Volts (Approx.) 10 Micromhos

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	7 V	PLATE VOLTAGE 7



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

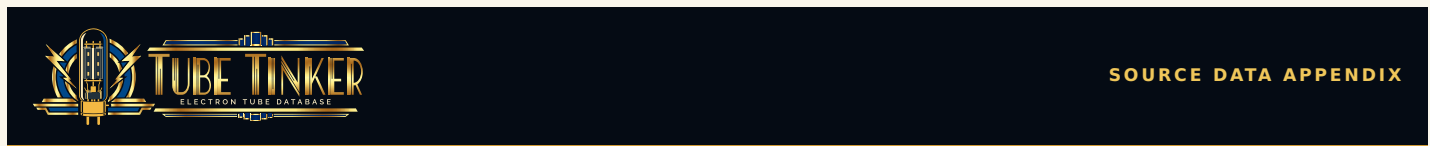
1950 SYLVANIA

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	90 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen Voltage	90 V	—
Plate Current	2.3 mA	—
Screen Current	0.7 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	0.8 Mohm	—
Transconductance	750 μ S	—



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	3 pF	—
Output capacitance	10 pF	—
Grid-to-plate capacitance	0.007 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	90 V	ClassA; OperatingPoint1
Screen voltage	90 V	ClassA; OperatingPoint1
Control-grid bias	0 V	ClassA; OperatingPoint1
Plate current	2.3 mA	ClassA; OperatingPoint1
Screen current	0.7 mA	ClassA; OperatingPoint1



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

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