



ELECTRONIC TUBE REFERENCE

CONSOLIDATED TECHNICAL DATA

6BD6

1 SECTION
CONSTRUCTION
PENTODE

Voltage - Pentode Remote Cutoff (single) electronic tube

Remote-cutoff miniature pentode designed for gain-controlled radio-frequency and intermediate-frequency amplification in receiving equipment.

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	180000 Ω
TRANSCONDUCTANCE	0.00235 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	125 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM SCREEN DISSIPATION	0.5 W
MAXIMUM CATHODE CURRENT	14 mA
MAXIMUM HEATER-CATHODE VOLTAGE	200 V
Published promoted fields populated semantically; identical repeated sections compressed where applicable.	

Remote-cutoff miniature pentode for radio-frequency and intermediate-frequency amplification.

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage. . 6.3 Volts	6.3 V	Heater Voltage. . 6.3 Volts
Heater Current. . 300 Ma	300 mA	Heater Current. . 300 Ma
Plate Voltage o 100 250 Volts	250 V	Plate Voltage o 100 250 Volts
Supressor Grid Voltage2 e 0 0 Volts	0 V	Supressor Grid Voltage2 e 0 0 Volts
Screen Grid Voltage. 100 100 Volts	100 V	Screen Grid Voltage. 100 100 Volts
Control Grid Voltage e e e -1 -3 Volts	-3 V	Control Grid Voltage e e e -1 -3 Volts
Plate Current . . e 13 9 Ma	9 mA	Plate Current . . e 13 9 Ma
Screen Current. 5 3.5 Ma	3.5 mA	Screen Current. 5 3.5 Ma
Plate Resistance 012 0.7 Megohm	0.7 Megohm	Plate Resistance 012 0.7 Megohm
Control Grid Voltage for gm — 10 ;Lmhos) -35 Volts	-35 V	Control Grid Voltage for gm — 10 ;Lmhos) -35 Volts

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage . . 300 Volts Max.	300 V	Plate Voltage . . 300 Volts Max.
Screen Voltage . . 125 Volts Max.	125 V	Screen Voltage . . 125 Volts Max.
Screen Dissipation . 0.4 Watts Max.	0.4 W	Screen Dissipation . 0.4 Watts Max.
Cathode Current . 14 Ma Max.	14 mA	Cathode Current . 14 Ma Max.

SOURCE OPERATING CONDITIONS

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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	250 V	ClassA; OperatingPoint1
Screen voltage	100 V	ClassA; OperatingPoint1
Control-grid bias	3 V	ClassA; OperatingPoint1
Plate current	9 mA	ClassA; OperatingPoint1
Screen current	3 mA	ClassA; OperatingPoint1
Plate resistance	800000 ohm	ClassA; OperatingPoint1
Transconductance	2000 uS	ClassA; OperatingPoint1
Plate voltage	100 V	ClassA; OperatingPoint2
Screen voltage	100 V	ClassA; OperatingPoint2
Control-grid bias	1 V	ClassA; OperatingPoint2
Plate current	13 mA	ClassA; OperatingPoint2
Screen current	5 mA	ClassA; OperatingPoint2
Plate resistance	150000 ohm	ClassA; OperatingPoint2
Transconductance	2550 uS	ClassA; OperatingPoint2

SOURCE OPERATING CONDITIONS

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1961 Tung Sol

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1961 TUNG SOL

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	180000 ohm	Typical
Transconductance	2350 uS	Typical



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1966 Tung Sol Electronic Tubes 1 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	RFIFAmplifier
Screen voltage	100 V	RFIFAmplifier
Plate current	10 mA	RFIFAmplifier
Screen current	4 mA	RFIFAmplifier
Application	Remote-cutoff RF/IF amplifier	Section1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	1000000 Ω	Section1
Transconductance	3300 μ S	Section1

TUBE TINKER

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