

ELECTRONIC TUBE REFERENCE

6BH5

Voltage - Pentode Remote Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Remote-cutoff RF pentode for variable-gain high-frequency amplifier service and automatic gain-control applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9AZ	BASE PINS	7
NOMINAL HEATER	6.3 V / 200 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9AZ - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – G2	A	G2 – Screen Grid	CONNECTED
PIN2 – G1	A	G1 – Control Grid	CONNECTED
PIN3 – G3	A	G3 – Suppressor Grid	CONNECTED
PIN3 – IS	A	IS – Internal Screen	CONNECTED
PIN3 – K	A	K – Cathode	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – H	–	H – Heater	CONNECTED
PIN6 – P	A	P – Plate (Anode)	CONNECTED
PIN7 – IC	–	–	IC
PIN8 – IC	–	–	IC

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	1100000 Ω
TRANSCONDUCTANCE	0.0022 S
AMPLIFICATION FACTOR	18
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	125 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM SCREEN DISSIPATION	0.3 W
MAXIMUM CATHODE CURRENT	10 mA
<i>Remote-cutoff RF pentode for variable-gain high-frequency amplifier service.</i>	

Remote-cutoff RF pentode for variable-gain high-frequency amplifier service. Published ratings, characteristics, capacitances, and representative operating conditions were extracted from the approved manual page where available.



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA; OperatingPoint1
Screen voltage	100 V	ClassA; OperatingPoint1
Control-grid bias	2.5 V	ClassA; OperatingPoint1
Plate current	6 mA	ClassA; OperatingPoint1
Screen current	1.7 mA	ClassA; OperatingPoint1
Plate resistance	1100000 ohm	ClassA; OperatingPoint1
Transconductance	2200 uS	ClassA; OperatingPoint1



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	200 mA	—
Plate voltage	250 V	—
Screen voltage	90 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	6 mA	—
Screen current	1.7 mA	—
Transconductance	2200 μ S	—
Plate resistance	1100000 ohm	—
Screen-grid amplification factor	18	—
Controlled transconductance	22 μ S	RemoteCutoffPoint
Equivalent noise resistance	6500 ohm	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	5.5 pF	—
Output capacitance	4.5 pF	—
Plate-grid capacitance maximum	0.002 pF	—

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