

ELECTRONIC TUBE REFERENCE

6BH8

Voltage Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
PENTODE-TRIODE

Sharp-cutoff pentode and medium-mu triode designed for television frequency-changing and amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9DX	BASE PINS	9
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

9DX - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – 2K	B	K – Cathode	CONNECTED
PIN2 – 2G1	B	G1 – Control Grid	CONNECTED
PIN3 – 2P	B	P – Plate (Anode)	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – H	–	H – Heater	CONNECTED
PIN6 – 1G3	A	G3 – Suppressor Grid	CONNECTED
PIN6 – IS	A	IS – Internal Screen	CONNECTED
PIN6 – 1K	A	K – Cathode	CONNECTED
PIN7 – 1G1	A	G1 – Control Grid	CONNECTED
PIN8 – 1G2	A	G2 – Screen Grid	CONNECTED
PIN9 – 1P	A	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	150000 Ω
TRANSCONDUCTANCE	0.007 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM SCREEN DISSIPATION	1 W
<i>Triode-pentode combination for television amplifier/oscillator service.</i>	

SECTION2 Triode	
PLATE RESISTANCE	5150 Ω
TRANSCONDUCTANCE	0.0033 S
AMPLIFICATION FACTOR	17
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.5 W
<i>Triode-pentode combination for television amplifier/oscillator service.</i>	

Sharp-cutoff pentode and medium-mu triode for television frequency-changing and amplifier service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	200 V	ClassA;PentodeSection
Screen Voltage	125 V	ClassA;PentodeSection

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	15 mA	ClassA;PentodeSection

1961 TUNG SOL

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	150 V	ClassA;TriodeSection
Heater Warmup Time	11 s	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	9.5 mA	ClassA;TriodeSection

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	600 mA	—
OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	300 V	—
Maximum screen supply voltage	300 V	—
Maximum plate dissipation	3 W	—
Maximum screen dissipation	1 W	—

1965 SYLVANIA ELECTRONIC TUBES VOL3
Section 2 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	600 mA	—
OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	300 V	—
Maximum plate dissipation	2.5 W	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1966 Tung Sol Electronic Tubes 1 of 4

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Section 1 · Pentode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PENTODE GRID #	0.004 W	Capacitances PENTODE GRID #1 TO TRIODE PLATE 0.004 w~f

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HEATER VOLTAGE (	7.3 V	Maximum Ratings HEATER VOLTAGE (7.3 VOLT\$
MAXIMUM PLATE DISSIPATION ~.Q	2.5 W	Maximum Ratings MAXIMUM PLATE DISSIPATION ~.Q 2.5 WATTS
HEATER VOLTAGE (	3 V	Typical Operating Conditions HEATER VOLTAGE (.3 VOLT\$
PLATE RESiSTA NCE (A PPROX.)	150 ohm	Typical Operating Conditions PLATE RESiSTA NCE (A PPROX.) 1)FQ_000 S 150 OHMS
PLATE CURRENT l.~j	9.5 mA	Typical Operating Conditions PLATE CURRENT l.~j 9.5 MA.

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GRID #	2 V	Pentode Section GRID #2 VOLTS



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO
Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen Supply Voltage	300 V	—
Heater Warmup Time	11 s	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	200 V	ClassA
Screen Voltage	125 V	ClassA
Cathode Bias Resistance	82 ohm	ClassA
Plate Current	15 mA	ClassA
Screen Current	3.4 mA	ClassA
Grid1VoltageAtPlateCurrent100uA	-8 V	ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid1 To Plate Capacitance	0.046 pF	—
Input Capacitance	7 pF	—
Output Capacitance	2.4 pF	—

1968 GENERAL ELECTRIC CO

Section 2 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	150 V	ClassA
Grid Voltage	-5 V	ClassA
Plate Current	9.5 mA	ClassA
GridVoltageAtPlateCurrent100uA	-14 V	ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid To Plate Capacitance	2.4 pF	—
Input Capacitance	2.6 pF	—
Output Capacitance	0.38 pF	—