

ELECTRONIC TUBE REFERENCE

6CH8

Voltage - Pentode Sharp Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

General-purpose medium-mu triode plus sharp-cutoff pentode for television IF, video, AGC, oscillator, and phase-splitter circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9FT	BASE PINS	9
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

9FT - TERMINAL PINOUT

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

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	5750 Ω
TRANSCONDUCTANCE	0.0033 S
AMPLIFICATION FACTOR	19
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.6 W
<i>Published source values promoted where applicable.</i>	

SECTION2 Pentode	
PLATE RESISTANCE	300000 Ω
TRANSCONDUCTANCE	0.0062 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM SCREEN DISSIPATION	0.5 W
<i>Published source values promoted where applicable.</i>	

General-purpose medium-mu triode and sharp-cutoff pentode for television IF, video, AGC, oscillator and phase-splitter circuits.



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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	450 mA	—
Plate voltage	300200 V	Typical operating conditions
Plate current	139.5 mA	Typical operating conditions

1961 TUNG SOL

Section 2 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	450 mA	—
Plate voltage	300200 V	Typical operating conditions
Plate current	139.5 mA	Typical operating conditions



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 2 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	1.6 pF	—
Triode input capacitance	1.9 pF	—
Triode output capacitance	1.6 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate supply voltage	200 V	ClassA
Grid #1 voltage	-6 V	ClassA
Plate current	13 mA	ClassA

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 2 · Pentode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pentode grid-to-plate capacitance	0.025 pF	—
Pentode input capacitance	7 pF	—
Pentode output capacitance	2.25 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate supply voltage	200 V	ClassA
Grid #2 supply voltage	150 V	ClassA
Cathode bias resistor	180 ohm	ClassA
Plate current	9.3 mA	ClassA
Grid #2 current	2.8 mA	ClassA

TUBE TINKER

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