

ELECTRONIC TUBE REFERENCE

5DH8

Voltage - Triode Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

Sharp-cutoff pentode and high-mu triode for television video-IF and detector/amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9EG	BASE PINS	9
NOMINAL HEATER	5.2 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

9EG - TERMINAL PINOUT

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

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	150000 Ω
TRANSCONDUCTANCE	0.0086 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.2 W
MAXIMUM SCREEN DISSIPATION	0.55 W
<i>REDO: section-specific promoted ratings/characteristics populated from supplied datasheet.</i>	

SECTION2 Triode	
PLATE RESISTANCE	12000 Ω
TRANSCONDUCTANCE	0.0044 S
AMPLIFICATION FACTOR	53
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	1 W
MAXIMUM CATHODE CURRENT	12 mA
<i>REDO: section-specific promoted ratings/characteristics populated from supplied datasheet.</i>	

5DH8 is described in the supplied Tung-Sol datasheet as a sharp-cutoff pentode and high-mu triode for video IF and detector/amplifier service. The redo includes a substantive section-electrical extraction from ratings and characteristic tables.



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
Heater voltage	5.2 V	—
Heater current	600 mA	—

1961 TUNG SOL

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	5.2 V	—
Heater current	600 mA	—



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	5.2 V	Published rating
Heater/filament current	600 mA	Published rating
Pentode transconductance	8600 μ S	PentodeSection
Pentode plate resistance	150000 ohm	PentodeSection

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Triode amplification factor	53	TriodeSection
Triode transconductance	4400 μ S	TriodeSection
Triode plate resistance	12000 ohm	TriodeSection

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Video IF amplifier and high-mu triode service	TelevisionService
Pentode plate voltage	125 V	PentodeSection
Pentode screen voltage	125 V	PentodeSection
Pentode plate current	13.5 mA	PentodeSection
Pentode screen current	3.8 mA	PentodeSection
Triode plate voltage	250 V	TriodeSection
Triode plate current	7.3 mA	TriodeSection



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
Plate Voltage	125 V	ClassA
Plate Current	13.5 mA	ClassA

1968 GENERAL ELECTRIC CO

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	ClassA
Plate Current	7.3 mA	ClassA



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