



ELECTRONIC TUBE REFERENCE

6EH8

Voltage - Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

Miniature sharp-cutoff pentode plus triode designed primarily for combined television oscillator and mixer frequency-converter service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9JG	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

9JG - TERMINAL PINOUT

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

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	170000 Ω
TRANSCONDUCTANCE	0.0065 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.8 W
MAXIMUM SCREEN DISSIPATION	0.5 W
MAXIMUM HEATER-CATHODE VOLTAGE	200 V
WARM-UP TIME	11 s
<i>Pentode section; screen supply maximum 300 V and screen voltage governed by rating chart.</i>	

SECTION2 Triode	
PLATE RESISTANCE	7000 Ω
TRANSCONDUCTANCE	0.0075 S
AMPLIFICATION FACTOR	40
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM HEATER-CATHODE VOLTAGE	200 V
WARM-UP TIME	11 s
<i>Triode section.</i>	

The 6EH8 is a miniature tube containing a sharp-cutoff pentode and a triode in one envelope, intended primarily for combined triode-oscillator and pentode-mixer service in television receivers.



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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	125 V	PentodeSection;Mixer
Grid 2 voltage	125 V	PentodeSection;Mixer
Plate current	12 mA	PentodeSection;Mixer
Grid 2 current	4 mA	PentodeSection;Mixer

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater warm-up time	11 s	WholeTube

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	125 V	TriodeSection;Oscillator
Plate current	13.5 mA	TriodeSection;Oscillator
Grid 1 voltage	-1 V	TriodeSection;Oscillator



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

Characteristic		
Parameter	Published Value	Condition / Note
Plate Voltage	125 V	PentodeSection
Plate Current	12 mA	PentodeSection

1968 GENERAL ELECTRIC CO

Section 2 · Triode

Characteristic		
Parameter	Published Value	Condition / Note
Plate Voltage	125 V	TriodeSection
Plate Current	13.5 mA	TriodeSection

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