

ELECTRONIC TUBE REFERENCE

1H4G

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Directly heated medium-mu power triode for Class A and push-pull Class B audio-output service in battery-operated equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5S	BASE PINS	7
NOMINAL HEATER	2 V / 60 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

5S - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – IS	A	IS – Internal Screen	CONNECTED
PIN2 – F	–	F – Filament	CONNECTED
PIN3 – P	A	P – Plate (Anode)	CONNECTED
PIN5 – G1	A	G1 – Control Grid	CONNECTED
PIN7 – F	–	F – Filament	CONNECTED

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	10300 Ω
TRANSCONDUCTANCE	0.0009 S
AMPLIFICATION FACTOR	9.3
MAXIMUM PLATE VOLTAGE	180 V
<i>Source states ratings/characteristics except capacitances identical with type 30 but does not reproduce maximum-ratings table; external maximum values not imported.</i>	

Directly heated medium-mu triode for Class A and push-pull Class B power-amplifier service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Raytheon Radio Receiving Tubes

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

1937 RAYTHEON RADIO RECEIVING TUBES

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
OCTAL BASE Maximum Plate Voltage	180 V	Published ratings
Plate Voltage	90 V	ClassA; Column1
Plate Voltage	135 V	ClassA; Column2
Plate Voltage	180 V	ClassA; Column3
Amplification Factor Fe3	9.3	ClassA; Column1
Amplification Factor Fe3	9.3	ClassA; Column2
Plate Resistance	11000 ohm	ClassA; Column1
Plate Resistance	10300 ohm	ClassA; Column2
Plate Resistance	10300 ohm	ClassA; Column3
Transconductance	850 uS	ClassA; Column1
Transconductance	900 uS	ClassA; Column2
Transconductance	900 uS	ClassA; Column3
Plate Current	245 mA	ClassA; Column1
Plate Current	3 mA	ClassA; Column2
Plate Current	3.1 mA	ClassA; Column3
Maximum Plate Voltage	180 V	ClassB
Maximum Peak Plate Current (per tube)	50 mA	ClassB
Maximum Io-Signal Plate Current (per tube)	1.5 mA	ClassB
With average power input =	260 mW	ClassB

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to Plate &	5	Published capacitance
Input	3	Published capacitance
Output	3	Published capacitance



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

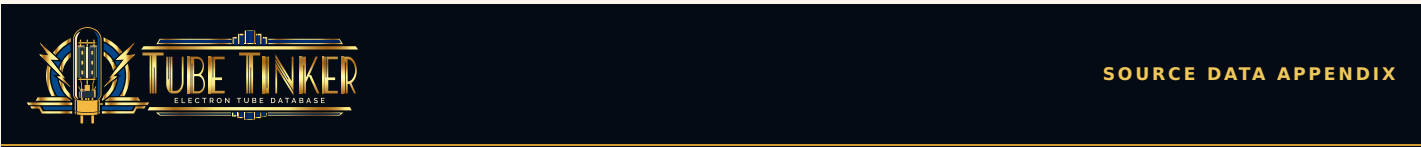
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195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	180 V	—
Plate voltage	180 V	ClassA
Control-grid voltage	-13.5 V	ClassA
Plate current	3.1 mA	ClassA
Plate resistance	10300 Ohm	ClassA
Transconductance	900 uS	ClassA
Amplification factor	9.3	ClassA
Plate voltage	90 V	ClassA 90V
Control-grid voltage	-4.5 V	ClassA 90V
Plate current	2.5 mA	ClassA 90V
Plate resistance	11000 Ohm	ClassA 90V
Transconductance	850 uS	ClassA 90V
Amplification factor	9.3	ClassA 90V
Plate voltage	157.5 V	ClassB PushPull TwoTubes
Control-grid voltage	-15 V	ClassB PushPull TwoTubes
Plate current	1 mA	ClassB PushPull TwoTubes

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Load resistance	8000 Ohm	ClassB PushPull TwoTubes
Power output	2.1 W	ClassB PushPull TwoTubes
Input signal power	0.26 W	ClassB PushPull TwoTubes



SOURCE OPERATING CONDITIONS

SOURCE PDF

1961 Tung Sol

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1961 TUNG SOL
Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	180 V	ClassA1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	3.1 mA	ClassA1;PlateVoltage=180V

TUBE TINKER

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