



ELECTRONIC TUBE REFERENCE

1H6G

Voltage - Triode (with diode, heptode or hexode) electronic tube

CONSOLIDATED TECHNICAL
DATA

3 SECTIONS

CONSTRUCTION

DIODE-DIODE-TRIODE

Directly heated double-diode triode for detector, AVC, and audio voltage-amplifier service in battery radios. Paired diodes provide signal and control rectification while the triode supplies subsequent audio gain.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7AA	BASE PINS	8
NOMINAL HEATER	2 V / 60 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode

No fixed ratings recorded.

Detector/AVC diode section 1; source publishes no separate fixed electrical ratings for the diode.

SECTION2 Diode

No fixed ratings recorded.

Detector/AVC diode section 2; source publishes no separate fixed electrical ratings for the diode.

SECTION3 Triode	
PLATE RESISTANCE	35000 Ω
TRANSCONDUCTANCE	0.000575 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	135 V
<i>Triode section Class A1 characteristics.</i>	

1H6G is listed as a duplex-diode medium-mu triode in the supplied receiving-tube handbook. It uses a 2.0 V, 0.06 A directly heated filament. The handbook publishes maximum ratings and representative operating characteristics for its intended 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 3 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Naximur Plate Voltage	135	Published ratings
Plate Voltage	135 V	ClassA
Grid Bias	-3 V	ClassA
Amplification Factor	20	ClassA
Plate Resistance	35000 ohm	ClassA
Transconductance	575 uS	ClassA
Plate Current	0.8 mA	ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to Plate	3.6 pF	Published capacitance
Input	2 pF	Published capacitance
Output	3 pF	Published capacitance



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	135 V	Published handbook rating
Plate voltage	135 V	ClassA
Control-grid voltage	3 V	ClassA
Plate current	0.8 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	35000 ohm	Published handbook characteristic
Transconductance	575 μS	Published handbook characteristic
Amplification factor	20	Published handbook characteristic
Filament voltage	2 V	DirectlyHeated DC filament
Filament current	60 mA	DirectlyHeated DC filament

TUBE TINKER

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and their source documents.

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