

ELECTRONIC TUBE REFERENCE

6V7G

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

CONSOLIDATED TECHNICAL DATA

3 SECTIONS
CONSTRUCTION
DIODE-DIODE-TRIODE

Double-diode triode combining radio detector and AVC rectification with subsequent voltage amplification. The paired diodes handle signal and control-voltage functions while the triode provides receiver audio or voltage gain.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8	BASE PINS	6
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode
No fixed ratings recorded.
Representative row for identical repeated sections.
SECTION2 Diode
No fixed ratings recorded.
Section 3 extracted from 6V7G.pdf.

SECTION3 Triode	
PLATE RESISTANCE	7500 Ω
TRANSCONDUCTANCE	0.0011 S
AMPLIFICATION FACTOR	8.3
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	2 W
<i>Promoted from clearly identified printed ratings/characteristics; additional operating points and capacitances retained in TUBE_SECTION_PARAMETER.</i>	

Double-diode triode with characteristics equivalent to type 85 apart from base arrangement.

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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	1.7 pF	Section1
Input capacitance	2 pF	Section1
Output capacitance	3.5 pF	Section1

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	135 V	ClassA
Grid bias	-10.6 V	ClassA
Plate current	3.7 mA	ClassA
Plate voltage	180 V	ClassA
Grid bias	-13.5 V	ClassA
Plate current	6 mA	ClassA
Plate voltage	250 V	ClassA
Grid bias	-20 V	ClassA
Plate current	8 mA	ClassA
Load resistance	20000 Ω	ClassA
Power output	350 mW	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	11000 Ω	135VPlate
Transconductance	750 μS	135VPlate
Plate resistance	8500 Ω	180VPlate
Transconductance	975 μS	180VPlate

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	7500 Ω	250VPlate
Transconductance	1100 μS	250VPlate
Amplification factor	8.3	Section1


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Raytheon

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

1938 RAYTHEON

Section 3 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Vcliaze	6.5 V	Heater Vcliaze 6.5 volts
Heater Cvrrrent	300 mA	Heater Cvrrrent 0.3 ampere
Plate 135	250 V	Plate 135 250 volts
Grig	-10.5 V	Grig -10.5 -20 volts
Plate Resis. 11000	7500 Ω	Plate Resis. 11000 7500 ohms


SOURCE DATA APPENDIX

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 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal
Heater current	300 mA	Nominal

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	3.7 mA	Published operating table; OperatingPoint1
Plate current	6 mA	Published operating table; OperatingPoint2
Plate current	8 mA	Published operating table; OperatingPoint3
Transconductance	750 μ S	Published operating table; OperatingPoint1
Transconductance	975 μ S	Published operating table; OperatingPoint2
Transconductance	1100 μ S	Published operating table; OperatingPoint3
Plate resistance	11000 ohm	Published operating table; OperatingPoint1
Plate resistance	8500 ohm	Published operating table; OperatingPoint2
Plate resistance	7500 ohm	Published operating table; OperatingPoint3

1961 TUNG SOL

Section 3 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal
Heater current	300 mA	Nominal

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	3.7 mA	Published operating table; OperatingPoint1
Plate current	6 mA	Published operating table; OperatingPoint2
Plate current	8 mA	Published operating table; OperatingPoint3
Transconductance	750 μ S	Published operating table; OperatingPoint1
Transconductance	975 μ S	Published operating table; OperatingPoint2
Transconductance	1100 μ S	Published operating table; OperatingPoint3
Plate resistance	11000 ohm	Published operating table; OperatingPoint1
Plate resistance	8500 ohm	Published operating table; OperatingPoint2
Plate resistance	7500 ohm	Published operating table; OperatingPoint3