

ELECTRONIC TUBE REFERENCE

7J7

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

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

HEPTODE-TRIODE

Receiver oscillator-converter combining local oscillation and signal mixing for superheterodyne frequency conversion. Its multi-grid structure integrates the front-end frequency-changing functions in one envelope.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	7 V / 320 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Heptode	
PLATE RESISTANCE	1500000 Ω
TRANSCONDUCTANCE	0.0003 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	100 V
MAXIMUM CATHODE CURRENT	14 mA
Published promoted fields populated by semantic heading; identical repeated physical sections compressed.	

SECTION2 Triode	
PLATE RESISTANCE	10400 Ω
TRANSCONDUCTANCE	0.00135 S
AMPLIFICATION FACTOR	14
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	1.25 W
MAXIMUM CATHODE CURRENT	14 mA
<i>Published promoted fields populated by semantic heading; identical repeated physical sections compressed.</i>	

A Lock-In triode-hexode frequency converter with an oscillator triode and hexode mixer section; translated from the French source.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Heptode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	7 V	Nominal
HeaterCurrentNominal	320 mA	Nominal
Plate Voltage	250 V	Converter
Screen Voltage	100 V	Converter

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Conversion Conductance	310 μ S	Converter



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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1961 TUNG SOL

Section 1 · Heptode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HexodeConversionTransconductance	300 μ S	Section1
HexodePlateResistance	1500000 ohm	Section1

1961 TUNG SOL

Section 2 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TriodeTransconductance	1350 uS	Section2