



ELECTRONIC TUBE REFERENCE

2EV5

Voltage Tetrode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

VHF tetrode designed as the RF amplifier in television tuners, providing high-frequency gain with controlled cutoff characteristics for front-end receiver service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	2.4 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
PLATE RESISTANCE	150000 Ω
TRANSCONDUCTANCE	0.0088 S
MAXIMUM PLATE VOLTAGE	275 V
MAXIMUM SCREEN VOLTAGE	180 V
MAXIMUM PLATE DISSIPATION	3.25 W
MAXIMUM SCREEN DISSIPATION	0.2 W
MAXIMUM CATHODE CURRENT	20 mA
MAXIMUM HEATER-CATHODE VOLTAGE	200 V
WARM-UP TIME	11 s
<i>Published promoted fields populated from Maximum Ratings / Characteristics / Typical Operation headings.</i>	

Frame-grid tetrode for VHF television-tuner RF amplifier service.



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 · Tetrode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid4 To Plate Capacitance	0.035 pF	Maximum
Input Capacitance	4.5 pF	—
Output Capacitance	2.79 pF	—



SOURCE OPERATING CONDITIONS

1965 Sylvania Electronic Tubes Vol3

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

1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	—
Screen-grid voltage	80 V	—
Grid 1 voltage	-1 V	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	150000 Ohm	—
Transconductance	8800 uS	—
Control-grid cutoff voltage	-4.5 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.035 pF	Shielded
Input capacitance	4.5 pF	Shielded
Output capacitance	2.9 pF	Shielded



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Westinghouse Data Book

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

1965 WESTINGHOUSE DATA BOOK

Section 1 · Tetrode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	2.4 V	—
Heater Current	600 mA	—
Grid-Plate Capacitance	0.035 pF	Maximum; Shielded
Input Capacitance	4.5 pF	Shielded
Output Capacitance	2.9 pF	Shielded
Operating Frequency	200 MHz	NoiseFigureContext

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	275 V	—
Maximum Screen Supply Voltage	180 V	—
Maximum Plate Dissipation	3.25 W	—
Maximum Screen Dissipation	0.2 W	—
Maximum Cathode Current	20 mA	—
Plate Voltage	250 V	—
Screen Voltage	80 V	—
Grid Voltage	-1 V	—

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 1 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

Section 1 · Tetrode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GRID #i TO PLATE (MAX.J	0.035 MMF	Capacitances GRID #i TO PLATE (MAX.J 0.035 μ f

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HEATER VOLTAGE	2.4 V	Maximum Ratings HEATER VOLTAGE 2.4 VOLTS
MAXIMUM PLATE VOLTAGE	275 V	Maximum Ratings MAXIMUM PLATE VOLTAGE 275 VOLTS
MAXIMUM PLATE DISSIPATION	3.25 W	Maximum Ratings MAXIMUM PLATE DISSIPATION 3.25 WATTS
MAXIMUM GRID #	2 W	Maximum Ratings MAXIMUM GRID #2 DISSIPATION 0.2 WATTS
HEATER VOLTAGE Z	4 V	Typical Operating Conditions HEATER VOLTAGE Z.4 VOLTS
PLATE RESISTANCE	0.15 Mohm	Typical Operating Conditions PLATE RESISTANCE 0.150 MEGOHM
PLATE CURRENT	11.5 mA	Typical Operating Conditions PLATE CURRENT 11.5 MA.
GRID #	0.9 mA	Typical Operating Conditions GRID #2 CURRENT 0.90 MA.