



ELECTRONIC TUBE REFERENCE

3EV5

Voltage Tetrode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TETRODE

High-gain sharp-cutoff tetrode for low-noise VHF television tuner service. Its design emphasizes sensitive RF amplification ahead of the converter stage.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	2.9 V / 450 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
<i>Promoted values are from the supplied Westinghouse family sheet; additional published ratings, characteristics and operating points are retained in TUBE_SECTION_PARAMETER.</i>	

High-gain sharp-cutoff tetrode for low-noise VHF television tuner 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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MAX IMUM PLATE VOLTAGE	275 VOLTS	Published datasheet value
MAXIMUM CATHODE CURRENT	20 MA	Published datasheet value
PLATE VOLTAGE	250 VOLTS	Published datasheet value
GRID #2 CURRENT	0.9 MA	Published datasheet value



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](#)

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-to-plate capacitance maximum	0.035 pF	Section1
Input capacitance	4.5 pF	Section1
Output capacitance	2.9 pF	Section1

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	VHFTuner
Screen voltage	80 V	VHFTuner
Grid voltage	-1 V	VHFTuner
Plate current	11.5 mA	VHFTuner
Screen current	0.9 mA	VHFTuner

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	0.15 MΩ	Section1
Transconductance	8800 μS	Section1
Grid-1 cutoff bias	-4.5 V	Section1