



ELECTRONIC TUBE REFERENCE

4HT6

Voltage - Pentode Remote Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Semi-remote-cutoff pentode designed for AGC-controlled television picture-IF or related television amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	4.2 V / 450 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	143000 Ω
TRANSCONDUCTANCE	0.014 S
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM SCREEN DISSIPATION	0.7 W
Representative electrical section.	

Semi-remote-cutoff pentode for AGC-controlled television IF amplifier stages.



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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	125 V	—
Screen-grid voltage	125 V	—
Cathode bias resistor	56 Ohm	—
Plate current	15 mA	—
Screen-grid current	4 mA	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	143000 Ohm	—
Transconductance	14000 uS	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.024 pF	Shielded
Input capacitance	8.7 pF	Shielded
Output capacitance	3 pF	Shielded



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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	4.2 V	—
Heater Current	450 mA	—
Transconductance	14000 uS	RepresentativePublishedPoint
Plate Resistance	143000 ohm	RepresentativePublishedPoint
Grid-Plate Capacitance	0.024 pF	PublishedDirectInterelectrodeCapacitance

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	330 V	—
Maximum Plate Dissipation	2.5 W	—
Plate Voltage	125 V	—
Screen Voltage	125 V	—
Cathode Bias Resistor	56 ohm	—
Plate Current	15 mA	—
Screen Current	4 mA	—



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
LIMITS OF SUPPLIED CURRENT	30 mA	Average Characteristics LIMITS OF SUPPLIED CURRENT 450 ` - 30 MA.
PLATE VOLTAGE	250 V	Maximum Ratings PLATE VOLTAGE 250 VOLTS
GRID	250 V	Maximum Ratings GRID 2 SUPPLY vOLTAGE 250 VOLTS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GRID	-50 V	Maximum Ratings GRID 1 VOLTAGE -50 VOLTS
PLATE DISSIPATION	2.5 W	Maximum Ratings PLATE DISSIPATION 2.5 WATTS
GRID	0.6 W	Maximum Ratings GRID 2 DISSIPATION 0.6 WATTS
CATHODE CURRENT	25 mA	Maximum Ratings CATHODE CURRENT 25 MA.
CATHODE BIAS RESISTOR	1 Mohm	Maximum Ratings CATHODE BIAS RESISTOR 1 MEGOHM
FIXED BIAS	0.25 Mohm	Maximum Ratings FIXED BIAS 0.25 MEGOHM
PLATE VOLTAGE	125 V	Maximum Ratings PLATE VOLTAGE 125 VOLTS
GRID	125 V	Maximum Ratings GRID 2 VOLTAGE 125 VOLTS
CATHODE BIAS RESISTOR	56 ohm	Maximum Ratings CATHODE BIAS RESISTOR 56 OHMS
PLATE CURRENT	15 mA	Maximum Ratings PLATE CURRENT 15 MA.
GRID	4 mA	Maximum Ratings GRID 2 CURRENT 4.0 MA.
TRANSCONDUCTANCE	14 MMHOS	Maximum Ratings TRANSCONDUCTANCE 14.000 μ MHOS
PLATE RESISTANCE	0.143 Mohm	Maximum Ratings PLATE RESISTANCE 0.143 MEGOHM
GRID	50 MMHOS	Maximum Ratings GRID 1 CUTOFF BIAS FOR G m= 50 μ MHOS -6.7 VOLTS
GRID	-6.7 V	Maximum Ratings GRID 1 CUTOFF BIAS FOR G m= 50 μ MHOS -6.7 VOLTS
HOT INPUT RESISTANCE	12.7 ohm	Maximum Ratings HOT INPUT RESISTANCE 12.700 OHMS
HOT INPUT CAPACITANCE	7.45 pF	Maximum Ratings HOT INPUT CAPACITANCE 7.45 pf
A - MEASURED	56 ohm	Maximum Ratings A - MEASURED 44 M~/a WITH UN BY PASSED 56 OHM CATHODE RESISTANCE
GRID .#	2 mA	Maximum Ratings GRID .#2 MILLIAMPERES

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

