

ELECTRONIC TUBE REFERENCE

3HM6

Voltage - Pentode Sharp Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Frame-grid sharp-cutoff pentode for high-gain television intermediate-frequency amplifier stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	3.15 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	156000 Ω
TRANSCONDUCTANCE	0.015 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM SCREEN DISSIPATION	0.55 W
MAXIMUM CATHODE CURRENT	25 mA
MAXIMUM HEATER-CATHODE VOLTAGE	200 V
WARM-UP TIME	11 s
Published promoted fields populated by semantic headings; identical repeated sections compressed.	

Frame-grid sharp-cutoff pentode for television IF amplifier stages.



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 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	15000 μ S	Typical
Plate Resistance	156000 ohm	Typical



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	13 mA	—
Screen-grid current	3.2 mA	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	156000 Ohm	—
Transconductance	15000 μ S	—
Control-grid cutoff voltage	-3 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Hot input resistance	13500 Ohm	—

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 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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	125 V	IFAmplifier
Screen voltage	125 V	IFAmplifier
Cathode-bias resistor	56 Ω	IFAmplifier
Plate current	13 mA	IFAmplifier
Screen current	3.2 mA	IFAmplifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	15000 μS	Section1
Plate resistance	0.156 MΩ	Section1
Hot input resistance at 44 MHz	13000 Ω	Section1
Grid-1 voltage at 100 uS transconductance	-3 V	Section1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Hot input capacitance at 44 MHz	7.4 pF	Section1

TUBE TINKER

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

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