



ELECTRONIC TUBE REFERENCE

4GM6

Voltage - Pentode Remote Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Semi-remote-cutoff pentode designed for television IF amplifier service with automatic gain control. Its gradual cutoff characteristic allows controlled wideband gain as received television signal strength changes.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7M	BASE PINS	7
NOMINAL HEATER	4.2 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	200000 Ω
TRANSCONDUCTANCE	0.013 S
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	1.7 W
MAXIMUM SCREEN DISSIPATION	0.65 W
Gain-controlled 40-MHz picture-IF pentode.	

Semi-remote-cutoff pentode for television IF amplifier service with AGC.



SOURCE OPERATING CONDITIONS

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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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GRID #	0.036 MMF	Capacitances GRID #1 TO PLATE (MAX.) 0.036 μ f
PLATE TO CATHODE S INTERNAL SHIELD d. G	2.4 MMF	Capacitances PLATE TO CATHODE S INTERNAL SHIELD d. G3. G2 8~ H. 2.4 μ f

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
FOR GRID #	165 V	ClassA FOR GRID #2 VOLTAGES UP TO 165 VOLTS 0.65 wart
HEATER WARM-UP TY ME (APPROX.)*	11 s	ClassA HEATER WARM-UP TY ME (APPROX.)* 11.0 SECONDS
HEATER VOLTAGE	4.2 V	ClassA HEATER VOLTAGE 4.2 VOLTS
PLATE SUPPLY VOLTAGE	5 V	ClassA PLATE SUPPLY VOLTAGE 1'L5 VOLTS
CATHODE RESISTOR	56 ohm	ClassA CATHODE RESISTOR 56 OHMS
PLATE RESISTANCE (APPROX.) 0	2 Mohm	ClassA PLATE RESISTANCE (APPROX.) 0.2 MEGOHMS
PLATE CURRENT L	4 mA	ClassA PLATE CURRENT L4 MA.
GRID #	4 mA	ClassA GRID #2 CURRENT j.4 MA.



SOURCE OPERATING CONDITIONS

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1971 RCA HB3 Binder 4 of 7

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1971 RCA HB3 BINDER 4 OF 7

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	125 V	IFAmplifier;40MHz
Grid 2 voltage	125 V	IFAmplifier;40MHz
Cathode resistor	56 ohm	IFAmplifier;40MHz
Plate current	14 mA	IFAmplifier;40MHz
Grid 2 current	3.4 mA	IFAmplifier;40MHz

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	200000 ohm	IFAmplifier;40MHz
Transconductance	13000 uS	IFAmplifier;40MHz
Grid 1 cutoff reference voltage	-15 V	IFAmplifier;40MHz
Heater warm-up time	11 s	ControlledWarmUp

TUBE TINKER

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

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