

ELECTRONIC TUBE REFERENCE

1C5G

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Directly heated battery power pentode for low-voltage, low-current receiver audio-output service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	G-6X	BASE PINS	7
NOMINAL HEATER	1.4 V / 100 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	110000 Ω
TRANSCONDUCTANCE	0.0015 S
MAXIMUM PLATE VOLTAGE	110 V
MAXIMUM SCREEN VOLTAGE	110 V
MAXIMUM CATHODE CURRENT	12 mA
Promoted characteristics use first listed Class A1 condition (83 V plate/screen).	

Power-amplifier pentode for battery-operated receiver service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1948 Brimar Radio Valve Manual

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

1948 BRIMAR RADIO VALVE MANUAL

Section 1 · Pentode

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power output at 90 V	0.24 W	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Pentode

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Courant filament o o e 0,100 ampéra	100 mA	Courant filament o o e 0,100 ampéra
Tension filament 1,4 1.4 volt	1.4 V	Tension filament 1,4 1.4 volt
Tension grille écran o we 83 90 volts.	90 V	Tension grille écran o we 83 90 volts.
Courant grille fcran 1.6 1,6 ma.	1.6 ma	Courant grille fcran 1.6 1,6 ma.
Résistance interne oo . 110,000 115,000 ohms	115 ohms	Résistance interne oo . 110,000 115,000 ohms



1958 Brimar Radio Valve No 7

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

1958 BRIMAR RADIO VALVE NO 7
Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Referenced Characteristics	Type 3S4, parallel filament connection	Source explicitly refers to 3S4; values not invented



SOURCE DATA APPENDIX

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	1.4 V	Nominal
Filament Current	100 mA	Nominal
MaximumFilamentVoltage	1.6 V	DryBatteryOperation
MaximumFilamentVoltage	1.3 V	ACOrDCPowerLineOperation;DesignCenter
Plate Voltage	83 V	ClassA1;PlateVoltage=83V
Screen Voltage	83 V	ClassA1;PlateVoltage=83V
Control Grid Voltage	-7 V	ClassA1;PlateVoltage=83V
Zero Signal Plate Current	7 mA	ClassA1;PlateVoltage=83V
Maximum Signal Plate Current	7.3 mA	ClassA1;PlateVoltage=83V
Zero Signal Screen Current	1.6 mA	ClassA1;PlateVoltage=83V
Maximum Signal Screen Current	3.5 mA	ClassA1;PlateVoltage=83V
Load Resistance	9000 ohm	ClassA1;PlateVoltage=83V

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Total Harmonic Distortion	10 %	ClassA1;PlateVoltage=83V
Power Output	200 mW	ClassA1;PlateVoltage=83V
Plate Voltage	90 V	ClassA1;PlateVoltage=90V
Screen Voltage	90 V	ClassA1;PlateVoltage=90V
Control Grid Voltage	-7.5 V	ClassA1;PlateVoltage=90V
Zero Signal Plate Current	7.5 mA	ClassA1;PlateVoltage=90V
Maximum Signal Plate Current	7.8 mA	ClassA1;PlateVoltage=90V
Zero Signal Screen Current	1.6 mA	ClassA1;PlateVoltage=90V
Maximum Signal Screen Current	3.5 mA	ClassA1;PlateVoltage=90V
Load Resistance	8000 ohm	ClassA1;PlateVoltage=90V
Total Harmonic Distortion	10 %	ClassA1;PlateVoltage=90V
Power Output	240 mW	ClassA1;PlateVoltage=90V

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	110000 ohm	ClassA1;PlateVoltage=83V
Transconductance	1500 uS	ClassA1;PlateVoltage=83V
Plate Resistance	115000 ohm	ClassA1;PlateVoltage=90V
Transconductance	1550 uS	ClassA1;PlateVoltage=90V