



ELECTRONIC TUBE REFERENCE

1C5GT

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Glass tubular directly heated power pentode for low-voltage battery receiver output stages.

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).	

Directly heated power-amplifier pentode for low-voltage Class-A output 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](#)

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 OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	90 V	ClassA
Screen voltage	90 V	ClassA
Control-grid voltage	-7.5 V	ClassA
Plate current	7.5 mA	ClassA
Screen current	1.6 mA	ClassA
Load resistance	8000 Ω	ClassA
Power output	0.24 W	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	115000 Ω	ClassA
Transconductance	1550 μS	ClassA



SOURCE DATA APPENDIX

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

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

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
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
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

TUBE TINKER

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