



ELECTRONIC TUBE REFERENCE

25B8GT

Voltage - Triode Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

Combined triode and RF pentode for receiving and signal-amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8T	BASE PINS	8
NOMINAL HEATER	25 V / 150 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	75000 Ω
TRANSCONDUCTANCE	0.0015 S
AMPLIFICATION FACTOR	112.5
MAXIMUM PLATE VOLTAGE	100 V
Source-defined physical/function section.	

SECTION2 Pentode	
PLATE RESISTANCE	185000 Ω
TRANSCONDUCTANCE	0.002 S
AMPLIFICATION FACTOR	370
MAXIMUM PLATE VOLTAGE	100 V
MAXIMUM SCREEN VOLTAGE	100 V
Source-defined physical/function section.	

Combined triode and RF pentode.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Ken Rad

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

1937 KEN RAD

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	100 V	Plate Voltage 100 Volts
Grid Voltage	-1 V	Grid Voltage -1 Volt
Plate Current	60 mA	Plate Current .60 Milliampere
Mutual Conductance	1500 μ S	Mutual Conductance 1,500 Micromhos
Plate Resistance	75 Mohm	Plate Resistance .075 Megohm
Amplification Factor	112.5 ratio	Amplification Factor) 112.5
Grid Voltage	-2.5 V	Approximate Grid Voltage For Plate Current Cut-Off -2.5 Volts

1937 KEN RAD

Section 2 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	100 V	Plate Voltage 100 Volts
Screen Voltage	100 V	Screen Voltage 100 Volts
Grid Voltage	-3 V	Grid Voltage -3 Volts
Plate Current	7.6 mA	Plate Current 7.6 Milliamperes
Screen Current	2 mA	Screen Current 2.0 Milliamperes
Mutual Conductance	2000 μ S	Mutual Conductance 2,000 Micromhos
Amplification Factor	370 ratio	Amplification Factor 370
Plate Resistance	185 Mohm	Plate Resistance .185 Megohm
Grid Voltage	-41 V	Control Grid Voltage For Sm = 2 Micromhos -41 Volts



SOURCE OPERATING CONDITIONS

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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 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	25 V	—
HeaterOrFilamentCurrent	150 mA	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	100 V	ClassA
Grid voltage	-1 V	ClassA
Plate current	0.6 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	112	ClassA

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	100 V	ClassA
Screen-grid voltage	100 V	ClassA
Grid voltage	-3 V	ClassA
Plate current	7.6 mA	ClassA
Screen-grid current	2 mA	ClassA



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	25 V	Nominal
Heater current	150 mA	Nominal
Plate voltage	100 V	ClassA
Grid voltage	-1 V	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	0.6 mA	ClassA
Plate resistance	75000 ohm	ClassA
Transconductance	1500 uS	ClassA
Amplification factor	112.5	ClassA
Grid voltage for plate-current cutoff	-2.5 V	ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control grid to cathode	5 pF	Direct interelectrode capacitance
Plate to cathode	4.6 pF	Direct interelectrode capacitance
Control grid to plate	2.2 pF	Direct interelectrode capacitance

1961 TUNG SOL

Section 2 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	25 V	Nominal
Heater current	150 mA	Nominal
Plate voltage	100 V	ClassA
Screen voltage	100 V	ClassA
Control-grid voltage	-3 V	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	7.6 mA	ClassA
Screen current	2 mA	ClassA
Plate resistance	185000 ohm	ClassA
Transconductance	2000 uS	ClassA
Amplification factor	370	ClassA
Control-grid voltage for transconductance 2 uS	-41 V	ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control grid to cathode	5.5 pF	Direct interelectrode capacitance
Plate to cathode	10 pF	Direct interelectrode capacitance
Control grid to plate	0.02 pF	Direct interelectrode capacitance
Pentode control grid to triode grid	0.02 pF	Cross-section capacitance
Pentode control grid to triode plate	0.009 pF	Cross-section capacitance
Pentode plate to triode grid	0.075 pF	Cross-section capacitance

TUBE TINKER

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and their source documents.

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