

ELECTRONIC TUBE REFERENCE

7F7

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

High-mu dual triode designed for resistance-coupled cascade voltage amplification and phase-inverter service, combining two voltage-amplifier sections in a Loctal envelope.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8AC	BASE PINS	8
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	44000 Ω
TRANSCONDUCTANCE	0.0016 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	1 W
Published promoted fields populated by semantic heading; identical repeated physical sections compressed.	

SECTION2 Triode	
PLATE RESISTANCE	44000 Ω
TRANSCONDUCTANCE	0.0016 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	1 W
Second physical triode section; added to align rows with SectionCount.	

The 7F7 combines two high-mu triodes for resistance-coupled cascade voltage amplification or phase-inverter 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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	EachSection
Plate Current	2.3 mA	EachSection
Control Grid Voltage	-2 V	EachSection

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	44000 ohm	EachSection
Transconductance	1600 μ S	EachSection
Amplification Factor	70	EachSection



SOURCE OPERATING CONDITIONS

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1950 Sylvania

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

1950 SYLVANIA

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	7 V	Nominal
HeaterCurrentNominal	320 mA	Nominal
Plate Voltage	250 V	ClassA



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
Typical plate voltage	250 V	ClassA;EachSection
Typical grid voltage	-2 V	ClassA;EachSection
Typical plate current	2.3 mA	ClassA;EachSection

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	44000 Ohm	EachSection
Transconductance	1600 uS	EachSection
Amplification factor	70	EachSection



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 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	62000 ohm	AlternateOperatingPoint
Transconductance	1125 uS	AlternateOperatingPoint

SOURCE OPERATING CONDITIONS

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1966 Tung Sol Electronic Tubes 2 of 4

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1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 1 · Triode

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate_voltage	250 V	Section1,Section2,ClassA

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate_current	2.3 mA	Section1,Section2,ClassA
Plate_resistance	44000 ohm	Section1,Section2,ClassA
Amplification_factor	70	Section1,Section2,ClassA
Transconductance	1600 uS	Section1,Section2,ClassA

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	1.6 pF	Section1,Section2
Input capacitance	3 pF	Section1,Section2
Output capacitance	0.4 pF	Section1,Section2

TUBE TINKER

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and their source documents.

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