

ELECTRONIC TUBE REFERENCE

7AF7

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Medium-mu twin triode with two similar sections for Class-A voltage amplification and phase-inverter service in receiving and general electronic equipment.

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	7600 Ω
TRANSCONDUCTANCE	0.0021 S
AMPLIFICATION FACTOR	16
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.5 W
Promoted from printed maximum/characteristic columns; additional published values are retained in TUBE_SECTION_PARAMETER.	

SECTION2 Triode	
PLATE RESISTANCE	7600 Ω
TRANSCONDUCTANCE	0.0021 S
AMPLIFICATION FACTOR	16
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.5 W
<i>Second physical triode section; added to align rows with SectionCount.</i>	

A Lock-In double-triode amplifier with two similar triode sections and separate electrical ratings per section.



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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	Nominal published value
Heater Current	320 mA	Nominal published value



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

Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	2.2 pF	EachSection
Output capacitance	1.6 pF	EachSection
Grid-to-plate capacitance	2.3 pF	EachSection

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical plate voltage	250 V	ClassA;EachSection
Typical grid voltage	-10 V	ClassA;EachSection
Typical plate current	9 mA	ClassA;EachSection

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	7600 Ohm	EachSection
Transconductance	2100 uS	EachSection
Amplification factor	16	EachSection

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