



ELECTRONIC TUBE REFERENCE

12AV7

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Medium-mu twin triode with notably high transconductance and low plate resistance, providing substantially greater current capability than typical small-signal voltage-amplifier dual triodes.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	12.6 V / 225 mA	PARALLEL HEATER	6.3 V / 450 mA
HEATING	Indirect	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	4800 Ω
TRANSCONDUCTANCE	0.0085 S
AMPLIFICATION FACTOR	41
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.7 W
Each identical triode section.	

SECTION2 Triode	
PLATE RESISTANCE	4800 Ω
TRANSCONDUCTANCE	0.0085 S
AMPLIFICATION FACTOR	41
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.7 W
<i>Second physical triode section; electrically identical twin section.</i>	

High-transconductance twin triode adaptable to AF voltage-amplifier and oscillator/mixer applications.



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	150 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	9 mA	—



SOURCE OPERATING CONDITIONS

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1966 Tung Sol Electronic Tubes 2 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA;EachSection
Plate current	18 mA	ClassA;EachSection
Grid voltage	-10 V	ClassA;EachSection

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	4800 ohm	ClassA;EachSection
Transconductance	8500 uS	ClassA;EachSection

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	41	ClassA;EachSection

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	1.7 pF	EachSection
Input capacitance	1.8 pF	EachSection
Output capacitance	1.8 pF	EachSection


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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1968 GENERAL ELECTRIC CO

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	150 V	EachSection
Amplification Factor	41	EachSection
Plate Resistance	4800 ohm	EachSection
Transconductance	8500 uS	EachSection