



ELECTRONIC TUBE REFERENCE

6AF4

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

High-frequency triode for UHF/VHF amplification, mixing, or oscillator service in television, FM, communications, or specialized RF equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	E7-1	BASE PINS	7
NOMINAL HEATER	6.3 V / 225 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	2100 Ω
TRANSCONDUCTANCE	0.0065 S
AMPLIFICATION FACTOR	13.5
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM CATHODE CURRENT	20 mA
PEAK INVERSE VOLTAGE	0.022 V
MAXIMUM HEATER-CATHODE VOLTAGE	50 V
<i>Published promoted fields populated from the datasheet; identical repeated sections compressed where applicable.</i>	

UHF triode (6AF4) with low lead inductance for oscillator and grounded-grid amplifier service.



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	Published table value
Output capacitance	0.45 pF	Published table value
Grid-to-plate capacitance	1.9 pF	Published table value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	80 V	ClassA
Cathode resistor	150 ohm	ClassA
Plate current	16 mA	ClassA



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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid To Cathode Heater Capacitance	2.2 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate To Cathode Heater Capacitance	1.4 pF	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Westinghouse Data Book

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

1965 WESTINGHOUSE DATA BOOK

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	6.3 V	—
HeaterOrFilamentCurrent	225 mA	—
Plate Voltage	100 V	—
Grid Voltage	-2.5 V	—
Plate Current	12 mA	—
Plate Resistance	5000 ohm	—
Transconductance	7000 uS	—
Amplification Factor	35	—
Grid To Plate Capacitance	1.5 pF	—
Input Capacitance	2 pF	—
Output Capacitance	1 pF	—
MaximumOperatingFrequency	500 MHz	Oscillator



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1966 Tung Sol Electronic Tubes 1 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	80 V	UHF Oscillator
Plate current	17.5 mA	UHF Oscillator
Plate voltage	100 V	Grounded Grid Amplifier
Plate current	17 mA	Grounded Grid Amplifier
Application	UHF oscillator and grounded-grid amplifier service Section1	

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	6500 μ S	Section1
Amplification factor	13.5	Section1
Plate resistance	2100 Ω	Section1



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltageNominal	6.3 V	—
HeaterOrFilamentCurrentNominal	225 mA	—
Maximum Plate Voltage	150 V	—
Maximum Plate Dissipation	2.5 W	—
Maximum Peak Inverse Voltage	0.022 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	2100 Ω	—
Transconductance	6500 μ S	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	13.5	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

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