

6AB4

Voltage - Triode (single high frequency) electronic tube

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 / 150 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	10900 Ω
TRANSCONDUCTANCE	0.0055 S
AMPLIFICATION FACTOR	60
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2.9 W
MAXIMUM CATHODE CURRENT	12 mA
Published promoted fields populated from the datasheet; identical repeated sections compressed where applicable.	

High-mu triode for cathode-drive amplification, frequency conversion, or oscillation to 300 MHz in television and FM receivers.

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	300 V	Published handbook rating
Plate voltage	250 V	ClassA
Control-grid bias	0 V	ClassA
Plate current	10 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	10900 ohm	Published handbook characteristic
Transconductance	5500 μ S	Published handbook characteristic
Amplification factor	60	Published handbook characteristic
Heater/filament voltage	6.3 V	Published heater/filament rating
Heater/filament current	150 mA	Published heater/filament rating

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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1961 TUNG SOL

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	Typical

Characteristic		
Parameter	Published Value	Condition / Note
Plate Current	10 mA	Typical



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1966 Tung Sol Electronic Tubes 1 of 4

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1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

Section 1 · Triode

Capacitance		
Parameter	Published Value	Condition / Note
Grid-to-plate capacitance	1.5 pF	Section1
Input capacitance	2.2 pF	Section1
Output capacitance	1.4 pF	WithShield
Heater-to-cathode capacitance	2.9 pF	Section1

Other		
Parameter	Published Value	Condition / Note
Plate voltage	100 V	ClassA
Cathode resistor	270 Ω	ClassA
Plate current	3.7 mA	ClassA
Plate voltage	250 V	ClassA
Cathode resistor	200 Ω	ClassA
Plate current	10 mA	ClassA
Application	High-frequency oscillator, mixer, grounded-grid RF amplifier below about 300 MHz	
		Section1

Characteristic		
Parameter	Published Value	Condition / Note
Plate resistance	15000 Ω	100VPlate
Transconductance	4000 μS	100VPlate
Amplification factor	60	Section1
Plate resistance	10900 Ω	250VPlate

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	5500 μ S	250VPlate



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1968 General Electric Co

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1968 GENERAL ELECTRIC CO

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltageNominal	6.3 V	—
HeaterOrFilamentCurrentNominal	150 mA	—
Maximum Plate Voltage	300 V	—
Maximum Plate Dissipation	2.5 W	—
Typical Plate Voltage	250 V	ClassA
Typical Plate Current	10 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	10900 Ohm	—
Transconductance	5500 uS	—
Amplification Factor	60	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid To Plate Capacitance	1.5 pF	—
Input Capacitance	2.2 pF	—
OutputCapacitanceWithShield	1.4 pF	—



SOURCE DATA APPENDIX

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1971 RCA HB3 Binder 3 of 7

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

1971 RCA HB3 BINDER 3 OF 7

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal
Heater current	150 mA	Nominal
Maximum plate voltage	330 V	Promoted published value
Maximum plate dissipation	2.9 W	Promoted published value
/^~ Voltage (AC or DC)	6.3 V	Heater Characteristics and Ratings (Absolute-Maximum Values):
Current at heater volts =	150 V	Heater Characteristics and Ratings (Absolute-Maximum Values):
respect to cathode	100 V	Heater Characteristics and Ratings (Absolute-Maximum Values):
PLATE VOLTAGE	330 V	Maximum Ratings, Absolute -Maximum Values:
PLATE DISSIPATION	2.9 W	Maximum Ratings, Absolute -Maximum Values:
to voltage variations as great as t	20 V	Maximum Ratings, Absolute -Maximum Values:
With heater volts =	250 V	Maximum Ratings, Absolute -Maximum Values:
cathode resistor (ohms) bypassed =	200 ohm	Maximum Ratings, Absolute -Maximum Values:

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	10900 ohm	Promoted published value
Transconductance	5500 uS	Promoted published value
Amplification factor	60	Promoted published value
Plate Supply Voltage	250 V	Characteristics, Clasa A I ,Ampl ifier:
Cathode Resistor	200 ohm	Characteristics, Clasa A I ,Ampl ifier:
Plate Resistance (Approx)	10900 ohm	Characteristics, Clasa A I ,Ampl ifier:
Transconductance	5500 uS	Characteristics, Clasa A I ,Ampl ifier:
Plate Current	10 mA	Characteristics, Clasa A I ,Ampl ifier:
r ' for plate μa =	-12 V	Characteristics, Clasa A I ,Ampl ifier:



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1975 RCA RC30

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	PublishedNominal
Heater Current	150 mA	PublishedNominal
Maximum Ratings / Characteristics	See type 12AT7	ReferenceEquivalenceSheet

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