

6AN4

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	7DK	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

7DK - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – P	A	P – Plate (Anode)	CONNECTED
PIN2 – G1	A	G1 – Control Grid	CONNECTED
PIN3 – H	–	H – Heater	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – K	A	K – Cathode	CONNECTED
PIN6 – G1	A	G1 – Control Grid	CONNECTED
PIN7 – P	A	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	7000 Ω
TRANSCONDUCTANCE	0.01 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	4 W
MAXIMUM CATHODE CURRENT	30 mA
<i>High-mu triode; Class A1 values at 200 V plate supply.</i>	

High-mu triode for grounded-grid amplifier or mixer service in UHF television tuners.



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

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Conversion transconductance	2900 μS	ConverterService



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	200 V	ClassA
Plate current	13 mA	ClassA

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	7000 ohm	Published handbook characteristic
Transconductance	10000 μS	Published handbook characteristic
Amplification factor	70	Published handbook characteristic
Heater voltage	6.3 V	Published heater rating
Heater current	225 mA	Published heater rating



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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	200 V	GroundedGridAmplifier
Cathode-bias resistor	100 Ω	GroundedGridAmplifier
Plate current	13 mA	GroundedGridAmplifier
Plate voltage	125 V	Mixer
Cathode-bias resistor	270 Ω	Mixer
Application	Grounded-grid amplifier or mixer in UHF television applications Section1	

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	10000 μS	Section1
Amplification factor	70	Section1



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 4 of 7

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

1971 RCA HB3 BINDER 4 OF 7

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage nominal	6.3 V	—
Heater current	225 mA	—
Maximum plate voltage	300 V	ClassA1
Maximum cathode current	30 mA	ClassA1
Maximum plate dissipation	4 W	ClassA1
Peak heater-cathode voltage	200 V	ClassA1

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate supply voltage	200 V	ClassA1
Cathode resistor	100 ohm	ClassA1
Amplification factor	70	ClassA1
Transconductance	10000 µS	ClassA1
Plate current	13 mA	ClassA1
Grid voltage for plate current 20 µA	-7 V	ClassA1

TUBE TINKER

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

[Catalog](#)[Tube types](#)[Full books](#)[Blog](#)[Feedback & corrections](#)

© 2026 Tube Tinker