

ELECTRONIC TUBE REFERENCE

6BK7A

Voltage - Dual Triode (similar high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Low-noise twin triode designed for VHF cascode-amplifier service, combining high transconductance and moderate gain for sensitive television tuner RF stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9AJ	BASE PINS	9
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9AJ - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – 2P	B	P – Plate (Anode)	CONNECTED
PIN2 – 2G1	B	G1 – Control Grid	CONNECTED
PIN3 – 2K	B	K – Cathode	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – H	–	H – Heater	CONNECTED
PIN6 – 1P	A	P – Plate (Anode)	CONNECTED
PIN7 – 1G1	A	G1 – Control Grid	CONNECTED
PIN8 – 1K	A	K – Cathode	CONNECTED
PIN9 – IS	A	IS – Internal Screen	CONNECTED

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	4600 Ω
TRANSCONDUCTANCE	0.0092 S
AMPLIFICATION FACTOR	43
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.7 W
Representative row for two electrically identical triodes.	

SECTION2 Triode	
PLATE RESISTANCE	4600 Ω
TRANSCONDUCTANCE	0.0092 S
AMPLIFICATION FACTOR	43
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.7 W
Physical triode restored under current one-row-per-physical-section policy.	

Twin triode for low-noise VHF cascode-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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	150 V	ClassA
Cathode resistor	56 Ω	ClassA
Plate current	18 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	4600 Ω	ClassA
Transconductance	9300 μS	ClassA
Amplification factor	43	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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	150 V	ClassA;EachSection
Heater Warmup Time	—	—

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GRID TO PLATE	1.8 μf	Section 1 GRID TO PLATE 1.8 1.8 μf
GRID TO GRID (MAX.)	0.004 μf	Section 1 GRID TO GRID (MAX.) 0.004 μf
PLATE TO PLATE (MAX.)	0.075 μf	Section 1 PLATE TO PLATE (MAX.) 0.075 μf
PLATE TO CATHODE	0.22 μf	Section 1 PLATE TO CATHODE. 0.22 0.22 μf

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HEATER VOLTAGE	6.3 V	Maximum Ratings HEATER VOLTAGE 6.3 VOLTS
MAXIMUM NEGATIVE DC GRID VOLTAGE	50 V	Maximum Ratings MAXIMUM NEGATIVE DC GRID VOLTAGE 50 voLTs
MAXIMUM PLATE DISSIPATION '2.7 W	2.7 W	Maximum Ratings MAXIMUM PLATE DISSIPATION '2.7 WATTS
RESPECT TO THE CATHODE AND AS NIGH AS j	0 V	Maximum Ratings RESPECT TO THE CATHODE AND AS NIGH AS j00 VOLTS NA%I NUM FOR THE 6BN 7B.
HEATER VOLTAGE	6.3 V	Typical Operating Conditions HEATER VOLTAGE 6.3 voLTs
HEATER CURRENT	450 mA	Typical Operating Conditions HEATER CURRENT 0.45 AMP.
PLATE VOLTAGE	150 V	Typical Operating Conditions PLATE VOLTAGE 150 VOLTS
CATHODE BIAS RESISTOR	56 ohm	Typical Operating Conditions CATHODE BIAS RESISTOR 56 OHMS
PLATE RESISTANCE (APPROX.)	600 ohm	Typical Operating Conditions PLATE RESISTANCE (APPROX.) 4 600 OHMS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PLATE CURRENT OF	18 mA	Typical Operating Conditions PLATE CURRENT OF 18 MA.. A FREOU EN CY OF 200 MEGALY CL E S. A STAGE BANDWIDTH OF 7 MEGACYCLES. AND

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