

7025

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
TRIODE-TRIODE

Special-quality high-mu twin triode designed as a low-noise voltage amplifier, with documented low equivalent noise for sensitive audio and low-level signal applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9A	BASE PINS	9
NOMINAL HEATER	12.6 V / 150 mA	PARALLEL HEATER	6.3 V / 300 mA
HEATING	Indirect	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9A - 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 – HCT	–	HCT – Heater Center Tap	CONNECTED

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	62500 Ω
TRANSCONDUCTANCE	0.0016 S
AMPLIFICATION FACTOR	100
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	1 W
MAXIMUM CATHODE CURRENT	8 mA
<i>Representative row for two electrically identical sections; promoted characteristics use the 250-V Class-A point.</i>	

SECTION2 Triode	
PLATE RESISTANCE	62500 Ω
TRANSCONDUCTANCE	0.0016 S
AMPLIFICATION FACTOR	100
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	1 W
MAXIMUM CATHODE CURRENT	8 mA
<i>Second physical triode section; added to align rows with SectionCount.</i>	

7025 is a DualTriode vacuum tube documented in the RCA Receiving Tube Manual. The supplied excerpt was reviewed for heater data, section arrangement, maximum ratings, electrical characteristics, interelectrode capacitances, typical operating conditions, and stated applications.



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	12.6 V	—
Heater Current	150 mA	—



SOURCE OPERATING CONDITIONS

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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
Heater voltage	12.6 V	Nominal
Heater current	150 mA	Nominal
Plate voltage	100 V	ClassA; OperatingPoint1
Grid voltage	-1 V	ClassA; OperatingPoint1
Plate voltage	250 V	ClassA; OperatingPoint2
Grid voltage	-2 V	ClassA; OperatingPoint2
Equivalent noise and hum voltage average	1.8 uV RMS	Published test conditions
Equivalent noise and hum voltage maximum	7 uV RMS	Published test conditions

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	0.5 mA	ClassA; OperatingPoint1
Amplification factor	100	ClassA; OperatingPoint1
Plate resistance	80000 ohm	ClassA; OperatingPoint1
Transconductance	1250 uS	ClassA; OperatingPoint1
Plate current	1.2 mA	ClassA; OperatingPoint2
Amplification factor	100	ClassA; OperatingPoint2
Plate resistance	62500 ohm	ClassA; OperatingPoint2
Transconductance	1600 uS	ClassA; OperatingPoint2



SOURCE OPERATING CONDITIONS

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1963 Amperex Condensed

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1963 AMPEREX CONDENSED

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	6.3 V	Published rating
Heater/filament current	300 mA	Published rating
Series heater voltage	12.6 V	SeriesHeater
Series heater current	150 mA	SeriesHeater
Amplification factor	100	VoltageAmplifier
Plate resistance	62500 ohm	VoltageAmplifier
Transconductance	1600 μS	VoltageAmplifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	VoltageAmplifier
Control-grid bias	-2 V	VoltageAmplifier
Plate current	1.2 mA	VoltageAmplifier

SOURCE OPERATING CONDITIONS

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1965 Sylvania Electronic Tubes Vol3

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1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Series heater voltage	12.6 V	SeriesHeater
Series heater current	150 mA	SeriesHeater
Parallel heater voltage	6.3 V	ParallelHeater
Parallel heater current	300 mA	ParallelHeater
Transconductance low	1250 μ S	—
Transconductance high	1600 μ S	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage maximum	300 V	—
Typical plate voltage low	100 V	ClassA
Typical plate voltage high	250 V	ClassA

CROSSREFERENCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Equivalent type	12AX7	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Low-noise voltage amplifier	—

1966 Tung Sol Electronic Tubes 4 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 4 OF 4

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal
Heater current	300 mA	Nominal
Maximum plate voltage	300 V	Promoted published value
Maximum plate dissipation	1 W	Promoted published value
a MAXIMUM HEATER –CATHODE VOLTAGE 1\$0 VOLTS	1 V	RATINGS
MAXIMUM PLATE VOLTAGE 300 VOLTS	3 V	RATINGS
MAXIMUM NEGATIVE DC GRID VOLTAGE -50 VOLTS	-5 V	RATINGS
PLATE CURRENT 0.5 I.	2 mA	CLASS A1,AMPLIFIER - EACH SECTION
AMPLIFICATION FACTOR 1GG 1UU	1 A	CLASS A1,AMPLIFIER - EACH SECTION
PLATE RESISTANCE \$0 GQG E)Z 500 OHMS	5 ohm	CLASS A1,AMPLIFIER - EACH SECTION
HEATER VOLTAGE (PARALLEL CONNECTIONJ~ 6.J VOLTS AC, CENTER	6 V	ADDITIONAL CHARACTERISTICS

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	62500 ohm	Promoted published value
Transconductance	1600 uS	Promoted published value
Amplification factor	100	Promoted published value
AND AMPLIFIER COVERING FREQUENCY RANGE BETWEEN 25 &10000 CRS.	10000 A	ADDITIONAL CHARACTERISTICS



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	80000 ohm	ClassA;Ep=100V
Transconductance	1250 uS	ClassA;Ep=100V
Equivalent Noise and Hum Voltage Average	1.8 uV	—
Equivalent Noise and Hum Voltage Maximum	7 uV	—



SOURCE DATA APPENDIX

1971 RCA HB3 Binder 5 of 7

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

1971 RCA HB3 BINDER 5 OF 7

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	12.6 V	—
Heater current	150 mA	—
Heater voltage series	12.6 V	—
Heater current series	150 mA	—
Heater voltage parallel	6.3 V	—
Heater current parallel	300 mA	—
Plate voltage	250 V	ClassA;EachSection
Grid voltage	-2 V	ClassA;EachSection
Plate current	1.2 mA	ClassA;EachSection

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Equivalent noise average	1.8 $\mu\text{V RMS}$	Audio
Equivalent noise maximum	7 $\mu\text{V RMS}$	Audio

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	62500 ohm	EachSection
Transconductance	1600 μS	EachSection
Amplification factor	100	EachSection

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


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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2026 JJ Electronic

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

2026 JJ ELECTRONIC

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
I_k	8 mA	Published value
U_b	250	Published value
R_a	47	Published value
R_g	150	Published value
R_k	1.2	Published value

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
U_a	250 V	Published value
U_g	-2 V	Published value
I_a	1.2 mA	Published value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
S	1600 μS	Published value
Ri	62.5 k Ω	Published value
μ	100	Published value

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
cg/k	1.6	Published value
ca	0.33	Published value
cg/a	1.7	Published value

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