

ELECTRONIC TUBE REFERENCE

5751

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Special-quality high-mu twin triode for low-noise voltage amplification and demanding communication or industrial service, offering lower gain than the 12AX7 family with controlled performance.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	12.6 V / 175 mA	PARALLEL HEATER	6.3 V / 350 mA
HEATING	Indirect	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	58000 Ω
TRANSCONDUCTANCE	0.0012 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	1.1 W
MAXIMUM CATHODE CURRENT	6 mA
MAXIMUM HEATER-CATHODE VOLTAGE	100 V
Representative row for two identical high-mu triode sections; absolute maxima used.	

SECTION2 Triode	
PLATE RESISTANCE	58000 Ω
TRANSCONDUCTANCE	0.0012 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	1.1 W
MAXIMUM CATHODE CURRENT	6 mA
<i>Second identical physical triode section; added to align rows with SectionCount.</i>	

High-reliability high-mu dual triode for voltage amplification and general-purpose low-level amplifier service.



SOURCE OPERATING CONDITIONS

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1960 RCA Industrial and Communications Types

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

1960 RCA INDUSTRIAL AND COMMUNICATIONS TYPES

Section 1 · Triode

CROSSREFERENCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Prototype / equivalent family	12AX7	—



SOURCE OPERATING CONDITIONS

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1963 Siemens

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1963 SIEMENS

Section 1 · Triode

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	350 mA	—

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	1200 μ S	Nominal/Bogey
Amplification factor	70	Nominal/Bogey



1966 Tung Sol Electronic Tubes 3 of 4

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1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance each section	1.4 pF	WholeTube
Input capacitance	1.4 pF	WholeTube
Output capacitance section 1	0.7 pF	WholeTube
Output capacitance section 2	0.36 pF	WholeTube

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	330 V	WholeTube
Maximum plate dissipation each section	0.8 W	WholeTube
Plate voltage	100 V	100VPoint
Grid bias voltage	-1 V	100VPoint
Amplification factor	70	100VPoint
Plate resistance	58000 ohm	100VPoint
Transconductance	1200 μ S	100VPoint
Plate current	0.8 mA	100VPoint
Plate voltage	250 V	250VPoint
Grid bias voltage	-3 V	250VPoint
Amplification factor	70	250VPoint
Plate resistance	58000 ohm	250VPoint
Transconductance	1200 μ S	250VPoint
Plate current	1 mA	250VPoint



1968 General Electric Co

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1968 GENERAL ELECTRIC CO

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	ClassA EachSection
Grid Bias Voltage	-3 V	ClassA EachSection

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	1 mA	ClassA EachSection



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1968 Mazda Belvu

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1968 MAZDA BELVU

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	350 mA	Nominal
Maximum Plate Voltage	330 V	—
Maximum Plate Dissipation	0.8 W	—
Maximum Cathode Current	6 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	1200 μ S	Typical
Amplification Factor	70	Typical

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	58000 ohm	Typical



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1971 RCA HB3 Binder 3 of 7

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1971 RCA HB3 BINDER 3 OF 7

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage (AC or DC) – published value 1	12.6 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Voltage (AC or DC) – published value 2	10 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Voltage (AC or DC) – published value 3	6.3 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Voltage (AC or DC) – published value 4	10 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Current – published value 1	0 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Current – published value 2	175 A	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Current – published value 3	350 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Voltage – published value 1	100 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Voltage – published value 2	250 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid Voltage – published value 1	-1 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Grid Voltage – published value 2	-3 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Resistance – published value 1	58000 ohm	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Resistance – published value 2	58000 ohm	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Transconductance – published value 1	1200	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Transconductance – published value 2	1200	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Current – published value 1	0.9 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Current – published value 2	1 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Pin 1 -Plate of – published value 1	1	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Pin 1 -Plate of – published value 2	6	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Pin 2-Grid of – published value 1	2	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Pin 2-Grid of – published value 2	7	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Pin 4 -Heater – published value 1	4	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Pin 4 -Heater – published value 2	9	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pin 5-Heater	5	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Heater Current – published value 1	1 A	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Heater Current – published value 2	160 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Heater Current – published value 3	190 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Current – published value 1	1 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Current – published value 2	2 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Current – published value 3	0.4 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Current – published value 4	1.6 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Current – published value 1	1 A	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Current – published value 2	3 A	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Current – published value 3	10.5 A	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Transconductance – published value 1	1	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Transconductance – published value 2	2	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Transconductance – published value 3	900	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance – published value 4	1600	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Reverse Grid Current – published value 1	1 A	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Reverse Grid Current – published value 2	4 A	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Reverse Grid Current – published value 3	400 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Mote 2: Witty do plate voltage of 250 volts and do grid voltage of -3 – published value 1	2 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Mote 2: Witty do plate voltage of 250 volts and do grid voltage of -3 – published value 2	250 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Mote 2: Witty do plate voltage of 250 volts and do grid voltage of -3 – published value 3	-3 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Note 3: With do plate voltage of 250 volts, plate load resistance of 0.1 – published value 1	3 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Note 3: With do plate voltage of 250 volts, plate load resistance of 0.1 – published value 2	250 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Note 3: With do plate voltage of 250 volts, plate load resistance of 0.1 – published value 3	0.1 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
meg on m, and do grid voltage of -10.5 volts.. Each unit is tested	10.5 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Note u: With do plate voltage of 250 volts, grid resistor of 1.0 meg ohm, – published value 1	250 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Note u: With do plate voltage of 250 volts, grid resistor of 1.0 meg ohm, – published value 2	1 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PLATE VOLTAGE	330 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Negative bias value	55 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Positive bias value	0 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
PLATE DISSIPATION	0.8 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Heater negative with respect to cathode	100 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Heater positive with respect to cathode	100 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.



SOURCE OPERATING CONDITIONS

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1975 RCA RC30

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1975 RCA RC30

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	100 V	ClassA
Grid voltage	-1 V	ClassA
Plate current	0.9 mA	ClassA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA
Grid voltage	-3 V	ClassA
Plate current	1 mA	ClassA



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	1200 μ S	—
Grid To Cathode Capacitance	1.6 pF	—
Plate Capacitance	0.33 pF	—
Grid To Plate Capacitance	1.7 pF	—

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