ELECTRONIC TUBE REFERENCE

5965

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
TRIODE-TRIODE

Premium industrial medium-mu twin triode for electronic-computer frequency-divider and on/off control circuits, designed for reliable switching service under demanding operating conditions.

General characteristics

BASE DESIGNATION	_	**BASE PINS**	9
NOMINAL HEATER	12.6 V / 225 mA	**PARALLEL HEATER**	6.3 V / 450 mA
HEATING	Indirect	**SERIES OPERATION**	Capable
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Triode

PLATE RESISTANCE	7250 Ω
TRANSCONDUCTANCE	0.0065 S
AMPLIFICATION FACTOR	47
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2.4 W
MAXIMUM CATHODE CURRENT	16.5 mA

Published ratings and characteristics promoted where applicable; additional source-table values retained in TUBE_SECTION_PARAMETER.

SECTION2 Triode

PLATE RESISTANCE	7250 Ω
TRANSCONDUCTANCE	0.0065 S
AMPLIFICATION FACTOR	47
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2.4 W
MAXIMUM CATHODE CURRENT	16.5 mA

Second physical triode section; electrically identical twin section.

Industrial medium-mu twin triode for computer frequency-divider and on/off control circuits. Extracted from the supplied RCA Receiving Tube Manual excerpt.

SOURCE OPERATING CONDITIONS

1950 Sylvania

SOURCE PDF

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 . . . . 063 12.6 Volts	**12.6 V**	Heater Voltage . . . . . 063 12.6 Volts
Heater Current . S ¢ X5 0.225 Ampere	**225 mA**	Heater Current . S ¢ X5 0.225 Ampere
Plate Voltage . . 150 Volts	**150 V**	Plate Voltage . . 150 Volts
Plate Current . 82 Ma	**82 Ma**	Plate Current . 82 Ma
Plate Resistance, apptoxnmate 7250 Ohms	**7250 Ohms**	Plate Resistance, apptoxnmate 7250 Ohms
Plate Supply Voltage . . . . . 150 150 Volts	**150 V**	Plate Supply Voltage . . . . . 150 150 Volts
will not differ by more than 1.5 volts from the grid voltage required to produce	**1.5 V**	will not differ by more than 1.5 volts from the grid voltage required to produce
150 microamperes in the other section with a plate supply voltage of 150 volts and Prepared and Relc	**150 V**	150 microamperes in the other section with a plate supply voltage of 150 volts and Prepared and Relcased By The

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Piate Voltage . . .o . . 300 Volts Max.	**300 V**	Piate Voltage . . .o . . 300 Volts Max.
Positive DC Grid Voltage . 0 Volt Max.	**0 V**	Positive DC Grid Voltage . 0 Volt Max.
Plate Dissipation . . : 2.2 Watts Max.	**2.2 W**	Plate Dissipation . . : 2.2 Watts Max.
Cathode Current . 15 Ma Max.	**15 Ma**	Cathode Current . 15 Ma Max.

SOURCE OPERATING CONDITIONS

1958 Brimar Radio Valve No 7

SOURCE PDF

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

1958 BRIMAR RADIO VALVE NO 7

Section 1 · Triode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Voltage	**150 V**	Each section
Anode Current	**8.2 mA**	Each section
Cathode Bias Resistor	**220 ohm**	Each section
Grid-to-Anode Capacitance	**3 pF**	Each section
Input Capacitance	**3.8 pF**	Each section

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1971 RCA HB3 Binder 3 of 7

SOURCE PDF

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

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	**5 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.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage (AC or DC) — published value 4	**5 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Current — published value 1	**225 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Current — published value 2	**450 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Grid to plate (Each unit)	**30**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Grid to cathode and heater (Each unit)	**3.8**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate to cathode and heater (Unit No.l). 0.5	**0.5**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate to cathode and heater (Unit No.2). 0.38	**0.38**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Supply Voltage	**150 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Cathode-Bias Resistor	**220 ohm**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Resistance	**7250 ohm**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Transconductance	**6500**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Current	**8.2 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
current of 150 µamp — published value 1	**150 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
current of 150 µamp — published value 2	**-5.5 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
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 4,9 -Heater of — published value 1	**4**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Pin 4,9 -Heater of — published value 2	**9**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Pin 4,9 -Heater of — published value 3	**9**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Pin 5,9 -Heater of — published value 1	**5**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Pin 5,9 -Heater of — published value 2	**9**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Supply Voltage — published value 1	**150 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Supply Voltage — published value 2	**150 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Load Resistor — published value 1	**7200 ohm**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Load Resistor — published value 2	**7200 ohm**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plata Current	**10.5 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
grid current of 140 µamp — published value 1	**140 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
grid current of 140 µamp — published value 2	**1 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
plate current of 150 µamp — published value 1	**150 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
plate current of 150 µamp — published value 2	**-5.5 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
current of i50 µamp per unit)	**1.5 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Heater Current — published value 1	**1**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Heater Current — published value 2	**0.207**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Heater Current — published value 3	**0.243**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
current of 150 µamp per unit) — published value 1	**150 A**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
current of 150 µamp per unit) — published value 2	**1.5 A**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Current 1 (Each Unit) — published value 1	**1 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Current 1 (Each Unit) — published value 2	**2 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Current 1 (Each Unit) — published value 3	**6 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Current 1 (Each Unit) — published value 4	**10.4 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current 2 (Each Unit) — published value 1	**2 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Current 2 (Each Unit) — published value 2	**1 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Current 2 (Each Unit) — published value 3	**4 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Current 2 (Each Unit) — published value 4	**9.75 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Reverse Grid Current (Each Unit) — published value 1	**1 A**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Reverse Grid Current (Each Unit) — published value 2	**5 A**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Reverse Grid Current (Each Unit) — published value 3	**1 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	**5100**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Transconductance — published value 4	**7900**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
x ote 1: with 12.6 volts ac or do on heater (series connected) — published value 1	**1 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
x ote 1: with 12.6 volts ac or do on heater (series connected) — published value 2	**12.6 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
x ote 2: With plate supply voltage of 150 volts and cathode resistor for — published value 1	**2 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
x ote 2: With plate supply voltage of 150 volts and cathode resistor for — published value 2	**150 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
X ote): With plate supply voltage of 150 volts, grid suPPly voltage ad	**150 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
1usted to give do plate current of 150 microamperes, and plate — published value 1	**1 uA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
1usted to give do plate current of 150 microamperes, and plate — published value 2	**150 uA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Mote N; With plate suDDIY voltage of 150 volts, grid suDDly voltage ad—	**150 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Justed to give do grid current of 140 mac roamperes, and plate	**140 mA**	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	**150 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
PLATE DISSIPATION	**2.4 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
DC CATHODE CURRENT	**16.5 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Heater negative with respect to cathode	**200 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater positive with respect to cathode	**200 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
For fixed-bias operation — published value 1	**0 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
For fixed-bias operation — published value 2	**1 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
For cathode-bias operation — published value 1	**0 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
For cathode-bias operation — published value 2	**5 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.

SOURCE OPERATING CONDITIONS

SOURCE PDF

1975 RCA RC30

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

1975 RCA RC30

Section 1 · Triode

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	**3 pF**	EachSection
Grid-to-cathode/heater capacitance	**3.8 pF**	EachSection
Plate-to-cathode/heater capacitance	**0.5 pF**	EachSection
Inter-section plate capacitance	**0.5 pF**	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Total plate dissipation both units	**4.4 W**	BothUnitsOperating
Plate supply voltage	**150 V**	ComputerService

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Conduction plate current	**10.5 mA**	ComputerService

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Class A plate current	**8.2 mA**	ClassA

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