

ELECTRONIC TUBE REFERENCE

6072

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Low-noise, long-life medium-mu twin triode intended for low-level AF voltage amplification, with two similar sections and characteristics associated with precision preamplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9A	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

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	25000 Ω
TRANSCONDUCTANCE	0.00175 S
AMPLIFICATION FACTOR	44
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	10 mA
<i>Representative row for two electrically identical triode sections; TUBE.SectionCount remains 2.</i>	

SECTION2 Triode	
PLATE RESISTANCE	25000 Ω
TRANSCONDUCTANCE	0.00175 S
AMPLIFICATION FACTOR	44
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	10 mA
<i>Second physical triode section; electrically identical twin section.</i>	

The RCA 6072 is a premium medium-mu twin triode based on 12AY7.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	300 V	Published handbook rating
Plate voltage	250 V	ClassA
Control-grid bias	4 V	ClassA
Plate current	3 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	25000 ohm	Published handbook characteristic
Transconductance	1750 μ S	Published handbook characteristic
Amplification factor	44	Published handbook characteristic
Heater/filament voltage	6.3 V	Published heater/filament rating
Heater/filament current	350 mA	Published heater/filament rating

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 RCA Industrial and Communications Types

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1960 RCA INDUSTRIAL AND COMMUNICATIONS TYPES

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	300 mA	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1968 General Electric Co

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1968 GENERAL ELECTRIC CO

Section 1 · Triode

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltageNominal	6.3 V	—
HeaterOrFilamentCurrentNominal	350 mA	—
Heater Voltage Series	12.6 V	—
Heater Current Series	175 mA	—
Heater Voltage Parallel	6.3 V	—
Heater Current Parallel	350 mA	—

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	Published datasheet table
Grid Voltage	4 V	Published datasheet table
Amplification Factor	44	Published datasheet table
Plate Resistance Approximate	25000 Ohm	Published datasheet table
GridVoltageApproximateI10Microamperes	10 uA	Published datasheet table
PlateSupplyV0ltage	150 V	Published datasheet table
CathodeCapacitor	40	Published datasheet table
Voltage Gain	12.5	Published datasheet table

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
OutputSectionNumber1Value1	1 pF	Published datasheet table
OutputSectionNumber1Value2	0.5 pF	Published datasheet table
OutputSectionNumber2Value1	2 pF	Published datasheet table
OutputSectionNumber2Value2	0.4 pF	Published datasheet table



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 3 of 7

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 – published value 1	12.6 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Voltage – published value 2	6.3 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Current – published value 1	175 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Current – published value 2	350 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Grid to plate (Each unit)	1.4	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Grid to cathode and heater (Each unit)	1.5	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Voltage	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	-4 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Resistance (Approx.)	25000 ohm	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Transconductance	1750	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Current	3 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Grid Voltage (Approx.) for plate $\mu_a = 10$ – published value 1	10 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Grid Voltage (Approx.) for plate $\mu_a = 10$ – published value 2	-8 V	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.
Pins 4i:9 -Heater of – published value 1	4	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Pins 4i:9 -Heater of – published value 2	9	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Pins 4i:9 -Heater of – published value 3	9	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Pins 5&9 -Heater of – published value 1	5	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pins 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	150 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate-Load Resistor	20000 ohm	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Grid Resistor	0.1 Mohm	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Cathode Capacitor	40	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Voltage Gain	12.5 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
at a frequency of 25 cycles per second	25	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
U nd er the fol lowing conditions: heater volts = 7.5 cycled	7.5 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
one minute on and one minute off, heater 135 volts positive	135 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Mith Effective Source Impedance of 200 ohms (ApDrox.)	200 ohm	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate-Supply Voltage	90 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Load Resistor – published value 1	0.1 Mohm	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Load Resistor – published value 2	0.24 Mohm	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Load Resistor – published value 3	0.51 Mohm	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Output Voltage – published value 1	14 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Peak Output Voltage – published value 2	16 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Peak Output Voltage – published value 3	16 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Voltage Gains – published value 1	25 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Voltage Gains – published value 2	27 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Voltage Gains – published value 3	27 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate-Supply Voltage	180 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Peak Output Voltage – published value 1	34 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Peak Output Voltage – published value 2	35 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Peak Output Voltage – published value 3	35 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Voltage Gain• – published value 1	28 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Voltage Gain• – published value 2	28 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Voltage Gain• – published value 3	29 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate-Supply Voltage	300 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Output Voltage – published value 1	64 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Peak Output Voltage – published value 2	64 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Peak Output Voltage – published value 3	64 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Voltage Gain• – published value 1	29 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Voltage Gain• – published value 2	31 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Voltage Gain• – published value 3	31 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.
Positive-bias value	0 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
PLATE DISSIPATION – published value 1	1 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
PLATE DISSIPATION – published value 2	65 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.



2026 JJ Electronic

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2026 JJ ELECTRONIC
Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ua	250 V	Published value
Ia	3 mA	Published value
f μ	40	Published value
Ua	300 V	Published value
Ug	-50 V	Published value
Wa	1.5 W	Published value
Ik	10 mA	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

TUBE TINKER

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