



ELECTRONIC TUBE REFERENCE

6MJ8

Voltage - Triple Triode electronic tube

CONSOLIDATED TECHNICAL DATA

3 SECTIONS

CONSTRUCTION

TRIODE-TRIODE-TRIODE

Duodecar triple triode used in matrixing-amplifier circuits of color and black-and-white television receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12HG	BASE PINS	12
NOMINAL HEATER	6.3 V / 900 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	5600 Ω
TRANSCONDUCTANCE	0.003 S
AMPLIFICATION FACTOR	17
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	3 W
<i>Representative specification for all three identical triode sections; values semantically read from current OCR PDF.</i>	

SECTION2 Triode	
PLATE RESISTANCE	5600 Ω
TRANSCONDUCTANCE	0.003 S
AMPLIFICATION FACTOR	10
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	3 W
<i>Full supplied entry reviewed for ratings, characteristics, operating data, and capacitances.</i>	

SECTION3 Triode	
PLATE RESISTANCE	5600 Ω
TRANSCONDUCTANCE	0.003 S
AMPLIFICATION FACTOR	10
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	3 W
<i>Full supplied entry reviewed for ratings, characteristics, operating data, and capacitances.</i>	

Duodecar type used in matrixing-amplifier circuits of color and black-and-white television receivers. Outlines section, 8D; requires duodecar 12-contact socket. 12HG

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	330 V	—
Maximum Plate Dissipation	3 W	—
Typical Plate Voltage	250 V	ClassA
TypicalGridVoltage	-10.5 V	ClassA
Typical Plate Current	10 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	17	—
Plate Resistance	5600 ohm	—
Transconductance	3000 uS	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid To Plate Capacitance	2.8 pF	Section1
Input Capacitance	2.9 pF	Section1
Output Capacitance	0.36 pF	Section1
Grid To Plate Capacitance	2.8 pF	Section2
Input Capacitance	2.9 pF	Section2
Output Capacitance	0.6 pF	Section2
Grid To Plate Capacitance	2.8 pF	Section3
Input Capacitance	3 pF	Section3
Output Capacitance	0.7 pF	Section3

SOURCE OPERATING CONDITIONS

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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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage (ac or dc)	6.3 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Heater Current	0.9	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid to plate – published value 1	2.8 pF	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid to plate – published value 2	2.8 pF	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid to plate – published value 3	2.8 pF	Published datasheet value; multiple values represent separate source-table limits or conditions.
Amplification Factor	17 A	Published datasheet value; multiple values represent separate source-table limits or conditions.
Plate Resistance (Approx.)	5600	Published datasheet value; multiple values represent separate source-table limits or conditions.
Transconductance	3000	Published datasheet value; multiple values represent separate source-table limits or conditions.
Plate Current	10 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
Plate Current for grid volts = -14 – published value 1	-14 V	Published datasheet value; multiple values represent separate source-table limits or conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current for grid volts = -14 – published value 2	4 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Heater Voltage	6.3 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Plate Voltage	250 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid Voltage	-10.5 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Plate Voltage	330 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Positive-bias value	0	Published datasheet value; multiple values represent separate source-table limits or conditions.
Plate Dissipation	3	Published datasheet value; multiple values represent separate source-table limits or conditions.
Heater Voltage, ac or dc – published value 1	5.7 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Heater Voltage, ac or dc – published value 2	6.9 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
For fixed-bias operation	1	Published datasheet value; multiple values represent separate source-table limits or conditions.
current issue of EIA Standard RS-191	191	Published datasheet value; multiple values represent separate source-table limits or conditions.
As defined in the current issue of EIA Standard RS-239	239	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 1 -Heater	1	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 2 -Plate of Unit No.3	2	Published datasheet value; multiple values represent separate source-table limits or conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pin 3 -Cathode	3	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 4 -Plate of Unit No.2	4	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 6 -Plate of Unit No.1	6	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 8 -Grid of Unit No.1	8	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 10 -Grid of Unit No.2	10	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 11 -Grid of Unit No.3	11	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 12 -Heater	12	Published datasheet value; multiple values represent separate source-table limits or conditions.



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 volts	Published value from supplied target entry
Heater Current	0.9 ampere	Published value from supplied target entry
Plate Voltage	330	Published value from supplied target entry
Grid Voltage, Positive-bias value	0 volts	Published value from supplied target entry
Plate Dissipation	3 watts	Published value from supplied target entry

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 volts	Published value from supplied target entry
Grid Voltage –	10.5 volts	Published value from supplied target entry
Plate Resistance (Approx.)	5600 ohms	Published value from supplied target entry
Transconductance	3000 umhos	Published value from supplied target entry
Plate Current for grid voltage of	14 volts	Published value from supplied target entry
Grid Voltage for plate current of	234 volts	Published value from supplied target entry
Grid-Circuit Resistance, for fixed-bias operation	1 megohm	Published value from supplied target entry
Heater Current	0.3 ampere	Published value from supplied target entry
Plate Voltage (Each Unit)	300 volts	Published value from supplied target entry
Grid-No	3	Published value from supplied target entry

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Direct Interelectrode Capacitances : No.1 No	3	Published value from supplied target entry
Grid to Plate	2.8 pF	Published value from supplied target entry
Grid to Cathode and Heater	3 pF	Published value from supplied target entry
Plate to Cathode and Heater	0.7 pF	Published value from supplied target entry

TUBE TINKER

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