



ELECTRONIC TUBE REFERENCE

6ME6

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Novar beam-power tube for horizontal-deflection output in color and monochrome television receivers, providing approximately 30 W plate dissipation and substantial switching current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 1.2 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
PLATE RESISTANCE	5800 Ω
AMPLIFICATION FACTOR	3.5
MAXIMUM SCREEN VOLTAGE	220 V
MAXIMUM PLATE DISSIPATION	30 W
MAXIMUM CATHODE CURRENT	350 mA
<i>Published promoted values applied where applicable; additional ratings, characteristics, and operating data retained as parameters.</i>	

Novar types used as horizontal-deflection amplifier in color and black-and-white television receivers. Out-9QL lines section, 32C; require novar 9-contact socket.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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 · Beam Power

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pb=30W – published value 1	30	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pb=30W – published value 2	200	Published datasheet value; multiple values represent separate source-table limits or conditions.
DC Plate Current – published value 1	580 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
DC Plate Current – published value 2	130 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
DC Grid-No. 2 Current . . Ic2 – published value 1	2 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
DC Grid-No. 2 Current . . Ic2 – published value 2	40 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
DC Grid-No. 2 Current . . Ic2 – published value 3	2.8 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
Cutoff DC Grid-No. 1	1	Published datasheet value; multiple values represent separate source-table limits or conditions.
Voltage for Ib = 1 mA . . Ec1 (col – published value 1	1 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Voltage for Ib = 1 mA . . Ec1 (col – published value 2	125 V	Published datasheet value; multiple values represent separate source-table limits or conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage for $I_b = 1 \text{ mA}$. . Ec1 (col – published value 3	44 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•	5000 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
DC Plate Voltage – published value 1	55 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
DC Plate Voltage – published value 2	175 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
DC Grid-No. 3 Voltage – published value 1	3 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
DC Grid-No. 3 Voltage – published value 2	0 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
DC Grid-No. 3 Voltage – published value 3	30 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
DC Grid-No. 3 Voltage – published value 4	30 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
DC Grid-No. 2 Voltage – published value 1	2 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
DC Grid-No. 2 Voltage – published value 2	125 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
DC Grid-No. 2 Voltage – published value 3	125 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
DC Grid-No. 2 Voltage – published value 4	125 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
DC Grid No. 1 Voltage – published value 1	1 V	Published datasheet value; multiple values represent separate source-table limits or conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC Grid No. 1 Voltage – published value 2	0 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
DC Grid No. 1 Voltage – published value 3	25 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Peak Positive-Pulse Plate Voltage9 ebm	7500 V	Pulse
Peak -Negative-Pulse Plate Voltage . . . –ebm	1100 V	Pulse
DC Grid-No. 3 Voltageh – published value 1	3 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
DC Grid-No. 3 Voltageh – published value 2	75 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
DC Grid-No. 2 (Screen-Grid) Voltage – published value 1	2 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
DC Grid-No. 2 (Screen-Grid) Voltage – published value 2	220 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Peak Negative-Pulse Grid-No. 1	1	Pulse
(Control-Grid) Voltage	330 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Heater Voltage – published value 1	5.7 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Heater Voltage – published value 2	6.9 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid-No.2Input	5	Published datasheet value; multiple values represent separate source-table limits or conditions.
Plate Dissipationl	30	Published datasheet value; multiple values represent separate source-table limits or conditions.
Temporary Overload PlateDissipationk: pb	200	Published datasheet value; multiple values represent separate source-table limits or conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-No. 1-Circuit Resistance	1	Published datasheet value; multiple values represent separate source-table limits or conditions.
Cathode Bias – published value 1	1 Mohm	Published datasheet value; multiple values represent separate source-table limits or conditions.
Cathode Bias – published value 2	0 Mohm	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid-leak Bias	10 Mohm	Published datasheet value; multiple values represent separate source-table limits or conditions.
Fixed Bias	0.47 Mohm	Published datasheet value; multiple values represent separate source-table limits or conditions.
b With grid No. 3 and grid No. 2 connected, respectively, to cathode – published value 1	3	Published datasheet value; multiple values represent separate source-table limits or conditions.
b With grid No. 3 and grid No. 2 connected, respectively, to cathode – published value 2	2	Published datasheet value; multiple values represent separate source-table limits or conditions.
f As defined in the current issue of EIA Standard RS-239A	239	Published datasheet value; multiple values represent separate source-table limits or conditions.
be applied to grid No. 3 to reduce interference from "snivets'",	3	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 1 -Grid No. 2 – published value 1	1	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 1 -Grid No. 2 – published value 2	2	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 1 -Grid No. 2 – published value 3	6	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 1 -Grid No. 2 – published value 4	1	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 2 -Grid No. 1 – published value 1	2	Published datasheet value; multiple values represent separate source-table limits or conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pin 2 -Grid No. 1 – published value 2	1	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 2 -Grid No. 1 – published value 3	7	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 2 -Grid No. 1 – published value 4	2	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 3 -Cathode – published value 1	3	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 3 -Cathode – published value 2	8	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 3 -Cathode – published value 3	3	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 4 -Heater – published value 1	4	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 4 -Heater – published value 2	9	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 5 -Heater	5	Published datasheet value; multiple values represent separate source-table limits or conditions.
GRID-No. 2 VOLTS • 123 – published value 1	2 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
GRID-No. 2 VOLTS • 123 – published value 2	123 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
GRID-No. I VGLTS • 0	0	Published datasheet value; multiple values represent separate source-table limits or conditions.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
increase power output. A typical value is 30 V_	30	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 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Circuit Resistance, for fixed-bias operation	1 megohm	Published value from supplied target entry
Heater Voltage (ac/dc)	0.6 volts	Published value from supplied target entry
Heater Current	2.3 amperes	Published value from supplied target entry
Peak Positive- Pulse Plate VoItage#	5000 volts	Published value from supplied target entry
Plate Voltage	175 volts	Published value from supplied target entry
Voltage	30 volts	Published value from supplied target entry
Grid-No	125	Published value from supplied target entry
Grid-No.1 (Control-Grid) Voltage –	25 volts	Published value from supplied target entry
Plate Resistance (Approx.)	5800 ohms	Published value from supplied target entry
Plate Current	130 mA	Published value from supplied target entry
Grid-No	2.8 mA	Published value from supplied target entry
Amplification Factor	3.5	Published value from supplied target entry
Plate Supply Voltage	990 volts	Published value from supplied target entry
Peak Positive-Pulse Plate VoItage#	7600 volts	Published value from supplied target entry
Peak Negative-Pulse Plate Voltage	1100 volts	Published value from supplied target entry
Grid-No	75 volts	Published value from supplied target entry
Grid-No	220	Published value from supplied target entry
Peak Negative-Pulse Grid-No.1 Voltage	330 volts	Published value from supplied target entry
Peak Cathode Current	1200 mA	Published value from supplied target entry

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average Cathode Current	350 mA	Published value from supplied target entry
Plate Dissipation	30 watts	Published value from supplied target entry
Plate Dissipation (Temporary overload)*	200 watts	Published value from supplied target entry
Grid-No,	5 watts	Published value from supplied target entry
# Pulse duration must not exceed	10	Published value from supplied target entry
For horizontal-deflection service, a positive voltage may be applied to grid-No	3	Published value from supplied target entry
Heater Voltage (ac/dc)	6.3 volts	Published value from supplied target entry
Heater Current	0.3 ampere	Published value from supplied target entry

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate to Cathode, Heater, Grid No	2	Published value from supplied target entry