



ELECTRONIC TUBE REFERENCE

6LB6

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Duodecar beam-power tube designed for horizontal-deflection amplification in color and black-and-white television receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12GJ	BASE PINS	12
NOMINAL HEATER	6.3 V / 2.25 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
PLATE RESISTANCE	6600 Ω
TRANSCONDUCTANCE	0.0134 S
AMPLIFICATION FACTOR	4
MAXIMUM PLATE VOLTAGE	990 V
MAXIMUM SCREEN VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	30 W
MAXIMUM SCREEN DISSIPATION	5 W
MAXIMUM CATHODE CURRENT	315 mA
<i>Representative electrical section from supplied RCA data sheet.</i>	

Duodecar beam power tube used as a horizontal-deflection amplifier in color and black-and-white television receivers.



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 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	990 V	—
Maximum Screen Voltage	200 V	—
Maximum Plate Dissipation	30 W	—
Maximum Screen Dissipation	5 W	—
Maximum Cathode Current	315 mA	—
Peak Positive Pulse Plate Voltage	7000 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	6600 ohm	—
Transconductance	13400 uS	—
Amplification Factor	4	—



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage nominal	6.3 V	—
Heater current	2.25 A	—
DC Plate Supply Voltage h Ebb	990 V	Published source row
Peak Positive-pulse plate Voltage	7000 V	Published source row
Peak Negative-Pulse Plate Voltage -e bm	100 V	Published source row
DC Grid-No	3 V	Published source row
DC Grid-No (value 2)	0 V	Published source row
DC Grid-No	2 V	Published source row
DC Grid-No (value 2)	200 V	Published source row
(Control-Grid) Voltage	300 V	Published source row
Heater Voltage, ac or do Eh	5.7 V	Published source row
Heater Voltage, ac or do Eh (value 2)	6.9 V	Published source row
Grid-No	2 W	Published source row
Grid-No (value 2)	5 W	Published source row
Plate Dissipationn Pb	30 W	Published source row
Grid-No.l-Circuit Resistance R gl	1.2	Published source row
Grid-No.l-Circuit Resistance Rgl	10	Published source row
Grid-No	3	Published source row
Grid-No (value 2)	0	Published source row
current issue of EIA Standard RS	191	Published source row
With grid No	3	Published source row
With grid No (value 2)	2	Published source row
Published electrical value	8	Published source row
Published electrical value (value 2)	239	Published source row

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
/'\ Heater Voltage, ac or dc. Eh	6.3 V	Published source row
Heater Current Ih	2.25 A	Published source row
Plate Resistance (approx.) rp –	6600	Published source row
Transconductance gm – – –	13400	Published source row
DC Grid-No	2 mA	Published source row
DC Grid-No (value 2)	110 mA	Published source row
DC Grid-No (value 3)	46 mA	Published source row
Heater Voltage Eh	6.3 V	Published source row
Plate Voltage s ebm	5000 V	Published source row
DC Plate Voltage Eb –	45 V	Published source row
DC Plate Voltage Eb – (value 2)	50 V	Published source row
DC Plate Voltage Eb – (value 3)	150 V	Published source row
DC Grid-No	2 V	Published source row
DC Grid-No (value 2)	110 V	Published source row
DC Grid-No (value 3)	160 V	Published source row
DC Grid-No.1 Voltage Ec1 –	0 V	Published source row
DC Grid-No.1 Voltage Ec1 – (value 2)	-20 V	Published source row



SOURCE DATA APPENDIX

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	Nominal
Heater Current	2.25 A	Nominal
Peak Positive-Pulse Plate Voltage	7000 V	HorizontalDeflection
Peak Negative-Pulse Plate Voltage	100 V	HorizontalDeflection
Average Cathode Current	315 mA	HorizontalDeflection
Peak Cathode Current	1100 mA	HorizontalDeflection
Plate Voltage	150 V	ClassA;PentodeConnection
Screen Voltage	110 V	ClassA;PentodeConnection
Control Grid Voltage	-20 V	ClassA;PentodeConnection
Plate Current	105 mA	ClassA;PentodeConnection
Screen Current	2 mA	ClassA;PentodeConnection

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1-to-Plate Capacitance	0.44 pF	—
Grid No.1 Input Capacitance	33 pF	—
Plate Output Capacitance	18 pF	—

TUBE TINKER

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and their source documents.

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