



ELECTRONIC TUBE REFERENCE

6DQ5

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

High-perveance beam-power pentode designed as the horizontal-deflection amplifier in color television receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	BJC	BASE PINS	8
NOMINAL HEATER	6.3 V / 2.5 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
PLATE RESISTANCE	5500 Ω
TRANSCONDUCTANCE	0.0105 S
AMPLIFICATION FACTOR	3.3
MAXIMUM PLATE VOLTAGE	990 V
MAXIMUM SCREEN VOLTAGE	190 V
MAXIMUM PLATE DISSIPATION	24 W
MAXIMUM SCREEN DISSIPATION	3.2 W
MAXIMUM CATHODE CURRENT	315 mA
<i>Horizontal-deflection beam-power section; pulse ratings retained as parameters.</i>	

The 6DQ5 is a high-perveance beam-power pentode designed as the horizontal-deflection amplifier in color television receivers.



SOURCE OPERATING CONDITIONS

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1950 Sylvania

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

1950 SYLVANIA

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Positive Pulse Plate Voltage	7000 V	Absolute maximum
Peak Negative Pulse Plate Voltage	1500 V	—
Peak Cathode Current	1000 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	110 mA	175 V plate, 125 V screen



SOURCE OPERATING CONDITIONS

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1966 Tung Sol Electronic Tubes 2 of 4

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1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak positive pulse plate voltage	6500 V	TVHorizontalDeflection;Pulse
Peak negative pulse plate voltage	1100 V	TVHorizontalDeflection;Pulse
Peak cathode current	1100 mA	TVHorizontalDeflection;Pulse

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.5 pF	—
Input capacitance	23 pF	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1971 RCA HB3 Binder 4 of 7

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1971 RCA HB3 BINDER 4 OF 7

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	2.5 A	—
DC plate-supply voltage	990 V	HorizontalDeflection
Peak positive pulse plate voltage	6500 V	HorizontalDeflection
Peak negative pulse plate voltage	-1100 V	HorizontalDeflection
Screen voltage	190 V	HorizontalDeflection
Peak negative grid voltage	-250 V	HorizontalDeflection
Peak cathode current	1100 mA	HorizontalDeflection
Average cathode current	315 mA	HorizontalDeflection
Screen input	3.2 W	—
Plate dissipation	24 W	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.5 pF	—
Input capacitance	23 pF	—

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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1-to-plate capacitance	0.5 pF	—
Grid No.1-to-other-electrodes capacitance	23 pF	—
Plate-to-other-electrodes capacitance	11 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	175 V	ClassA;PentodeConnection
Screen-grid voltage	125 V	ClassA;PentodeConnection
Grid voltage	-25 V	ClassA;PentodeConnection
Plate current	110 mA	ClassA;PentodeConnection
Screen-grid current	5 mA	ClassA;PentodeConnection
Peak positive-pulse plate voltage	6500 V	HorizontalDeflection
Average cathode current	315 mA	HorizontalDeflection

TUBE TINKER

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and their source documents.

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