

ELECTRONIC TUBE REFERENCE

6LU8

Power - TV Vertical Output electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
BEAMPOWER-TRIODE

Television combination tube with a pulse-rated beam-power section designed for vertical-deflection output and an associated small-signal section for sweep circuitry.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12DZ	BASE PINS	12
NOMINAL HEATER	6.3 V / 1.5 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

12DZ - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	–	H – Heater	CONNECTED
PIN2	B	P – Plate (Anode)	CONNECTED
PIN4	A	P – Plate (Anode)	CONNECTED
PIN6	A	G1 – Control Grid	CONNECTED
PIN7	A	G1 – Control Grid	CONNECTED
PIN8	A	G2 – Screen Grid	CONNECTED
PIN9	A	G3 – Suppressor Grid	CONNECTED
PIN9	A	K – Cathode	CONNECTED
PIN10	B	G1 – Control Grid	CONNECTED
PIN11	B	K – Cathode	CONNECTED
PIN12	–	H – Heater	CONNECTED

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	16000 Ω
TRANSCONDUCTANCE	0.0036 S
AMPLIFICATION FACTOR	58
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM CATHODE CURRENT	30 mA
<i>Published source values promoted where applicable.</i>	

SECTION2 Beam Power	
PLATE RESISTANCE	12000 Ω
TRANSCONDUCTANCE	0.0093 S
AMPLIFICATION FACTOR	6.5
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	14 W
MAXIMUM SCREEN DISSIPATION	2.75 W
MAXIMUM CATHODE CURRENT	75 mA
<i>Published source values promoted where applicable.</i>	

High-mu triode and beam power tube used as combined vertical-deflection oscillator and vertical-deflection amplifier in color television receivers.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Triode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Service	Vertical deflection oscillator	—

1950 SYLVANIA

Section 2 · Beam Power

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Service	Vertical deflection amplifier	—



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	400 V	—
Maximum Plate Dissipation	2.5 W	—
Maximum Cathode Current	30 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	16000 ohm	—
Transconductance	3600 uS	—
Amplification Factor	58	—
Interelectrode Capacitances Published	true	—

1968 GENERAL ELECTRIC CO

Section 2 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	400 V	—
Maximum Screen Voltage	300 V	—
Maximum Plate Dissipation	14 W	—
Maximum Screen Dissipation	2.75 W	—
Maximum Cathode Current	75 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	12000 ohm	—
Transconductance	9300 uS	—
Amplification Factor	6.5	—
Interelectrode Capacitances Published	true	—



TUBE TINKER
ELECTRON TUBE DATABASE

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1975 RCA RC30

SOURCE PDF

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 V	Nominal
Heater Current	1.5 A	Nominal
Peak Heater-Cathode Voltage	200 V	—
Average Heater-Cathode Voltage	100 V	—
Plate Voltage	250 V	ClassA
Control Grid Voltage	-4 V	ClassA
Plate Current	2.3 mA	ClassA
Peak Negative-Pulse Control-Grid Voltage	400 V	VerticalDeflection

1975 RCA RC30

Section 2 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	135 V	ClassA
Control Grid Voltage	-10 V	ClassA
Plate Current	56 mA	ClassA
Screen Voltage	120 V	ClassA
Peak Positive-Pulse Plate Voltage	2500 V	VerticalDeflection
Peak Negative-Pulse Control-Grid Voltage	250 V	VerticalDeflection
Bulb Temperature	210 C	VerticalDeflection

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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