

6LX8

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

Triode-pentode combination designed for television horizontal oscillator and frequency-control service, performing line time-base timing rather than high-power sweep output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9DC	BASE PINS	9
NOMINAL HEATER	6 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

9DC - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – 2P	B	P – Plate (Anode)	CONNECTED
PIN2 – 1G1	A	G1 – Control Grid	CONNECTED
PIN3 – 1G2	A	G2 – Screen Grid	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – H	–	H – Heater	CONNECTED
PIN6 – 1P	A	P – Plate (Anode)	CONNECTED
PIN7 – 1G3	A	G3 – Suppressor Grid	CONNECTED
PIN7 – 1S	A	IS – Internal Screen	CONNECTED
PIN7 – 1K	A	K – Cathode	CONNECTED
PIN8 – 2K	B	K – Cathode	CONNECTED
PIN9 – 2G1	B	G1 – Control Grid	CONNECTED

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	400000 Ω
TRANSCONDUCTANCE	0.0055 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	1.2 W
MAXIMUM SCREEN DISSIPATION	0.2 W
MAXIMUM CATHODE CURRENT	15 mA
<i>Published ratings/characteristics promoted from supplied source; additional conditions retained in parameter table.</i>	

SECTION2 Triode	
PLATE RESISTANCE	20000 Ω
TRANSCONDUCTANCE	0.0035 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	1.4 W
MAXIMUM CATHODE CURRENT	10 mA
<i>Published ratings/characteristics promoted from supplied source; additional conditions retained in parameter table.</i>	

Miniature type used as horizontal-oscillator and frequency-control tube in color and black-and-white television receivers. Outlines section, 6B; requires miniature 9-contact socket. Types 5JW8, 6LX8/LCF802 and 9JW8/PCF802 are identical with type 6JW8/ECF802 9AE except for heater ratings. 6JW8/ 6LX8/ 9JW8/ 5JW8 ECF802 LCF802 PCF802



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1964 RMA EIA

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

1964 RMA EIA

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
EquivalentElectricalType	8JW8	ExceptHeater
ControlledWarmupHeater	1 boolean	—

1964 RMA EIA

Section 2 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6 V	—
Heater Current	450 mA	—
EquivalentElectricalType	8JW8	ExceptHeater
ControlledWarmupHeater	1 boolean	—



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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	250 V	—
Maximum Screen Voltage	250 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Dissipation	1.2 W	—
Maximum Screen Dissipation	0.2 W	—
Maximum Cathode Current	15 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	400000 ohm	—
Transconductance	5500 uS	—
Interelectrode Capacitances Published	true	—

1968 GENERAL ELECTRIC CO

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	250 V	—
Maximum Plate Dissipation	1.4 W	—
Maximum Cathode Current	10 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	20000 ohm	—
Transconductance	3500 uS	—
Amplification Factor	70	—
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 2 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage (ac/dc)	9 volts	Published value from supplied target entry
Heater Current	0.3 ampere	Published value from supplied target entry
Plate Supply Voltage	650 volts	Published value from supplied target entry
Plate Voltage	250 volts	Published value from supplied target entry
Grid-No	2	Published value from supplied target entry
Grid-No.2 Voltage	250 volts	Published value from supplied target entry
Peak Cathode Current*	60 mA	Published value from supplied target entry
Cathode Current	15 mA	Published value from supplied target entry
Plate Dissipation	1.2 watts	Published value from supplied target entry
Grid-No	0.8 watts	Published value from supplied target entry
Input Impedance at	300	Published value from supplied target entry
Plate Voltage	100 volts	Published value from supplied target entry
Grid-No	100	Published value from supplied target entry
Grid-No.1 (Control-Grid) Voltage	1 volts	Published value from supplied target entry
Mu Factor, Grid-No.1 to Grid-No	47	Published value from supplied target entry
Amplification Factor	70	Published value from supplied target entry
Input Resistance	0.4 megohm	Published value from supplied target entry
Transconductance	5600	Published value from supplied target entry
Plate Current	6 mA	Published value from supplied target entry
Grid-No	1.7 mA	Published value from supplied target entry
For grid-No.1 voltage of	12.5 volts	Published value from supplied target entry
For grid current of	10 mA	Published value from supplied target entry
Grid-No	0 volts	Published value from supplied target entry
For grid-No.1 current of	-1.3 volts	Published value from supplied target entry
For plate and grid-No	200 volts	Published value from supplied target entry
and plate current of	-16 volts	Published value from supplied target entry
Heater Voltage (ac/dc)	25.2 volts	Published value from supplied target entry
Heater Current	0.3 amperes	Published value from supplied target entry
Heater Warm-up Time	11 seconds	Published value from supplied target entry

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	120 volts	Published value from supplied target entry
Grid-No	110 volts	Published value from supplied target entry
Grid-No.1 (Control-Grid) Voltage	-8 volts	Published value from supplied target entry
Amplification Factor	20	Published value from supplied target entry
Plate Resistance (Approx.)	11700 ohms	Published value from supplied target entry
Transconductance	7100 umhos	Published value from supplied target entry
Plate Current	46 mA	Published value from supplied target entry