

ELECTRONIC TUBE REFERENCE

6LY8

Voltage - Triode Pentode electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
PENTODE-TRIODE

Combined triode-pentode for television video, sync, burst, IF, AGC, or related signal-processing circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9DX	BASE PINS	9
NOMINAL HEATER	6.3 V / 750 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

9DX - TERMINAL PINOUT

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

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	60000 Ω
TRANSCONDUCTANCE	0.02 S
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	5 W
MAXIMUM SCREEN DISSIPATION	1.1 W
<i>Full supplied entry reviewed for ratings, characteristics, operating data, and capacitances.</i>	

SECTION2 Triode	
PLATE RESISTANCE	59000 Ω
TRANSCONDUCTANCE	0.0017 S
AMPLIFICATION FACTOR	100
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	1 W
<i>Full supplied entry reviewed for ratings, characteristics, operating data, and capacitances.</i>	

Miniature type used in color and black-and-white television receiver applications. The pentode unit is used as a video amplifier, and the triode unit for general-purpose use. Outlines section, 6E; requires 9-contact socket. Type 10LY8 is identical with type 6LY8 except for heater ratings. 9DX : : : Technical Data 367 6LY8 10LY8

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	330 V	—
Maximum Screen Voltage	330 V	—
Maximum Plate Dissipation	5 W	—
Maximum Screen Dissipation	1.1 W	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	60000 ohm	—
Transconductance	20000 uS	—
Interelectrode Capacitances Published	true	—

1968 GENERAL ELECTRIC CO

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	330 V	—
Maximum Plate Dissipation	1 W	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	59000 ohm	—
Transconductance	1700 uS	—
Amplification Factor	100	—
Interelectrode Capacitances Published	true	—

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 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	10.5 volts	Published value from supplied target entry
Heater Current	0.45 ampere	Published value from supplied target entry
Heater Warm-up Time (Average)	11 seconds	Published value from supplied target entry
Plate Voltage	330 volts	Published value from supplied target entry
Grid-No	330 volts	Published value from supplied target entry
Grid-No	300	Published value from supplied target entry
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0 volts	Published value from supplied target entry
Plate Dissipation	5 watts	Published value from supplied target entry
Grid-No	2	Published value from supplied target entry
For grid-No	1.1 volts	Published value from supplied target entry
Por grid-No	300 volts	Published value from supplied target entry
Plate Voltage	200 volts	Published value from supplied target entry
Grid-No	100 volts	Published value from supplied target entry
Grid-No.1 Voltage –	0 volts	Published value from supplied target entry
Amplification Factor	100	Published value from supplied target entry
Plate Current	19.5 mA	Published value from supplied target entry
Grid-No	3 mA	Published value from supplied target entry
Heater Voltage (ac/dc)	6.3	Published value from supplied target entry
Heater Current	0.77 ampere	Published value from supplied target entry
Plate Dissipation	3.1 watts	Published value from supplied target entry
For voltages up to	0.65 volts	Published value from supplied target entry

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
For voltages between	300 volts	Published value from supplied target entry

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to Plate	1.8 PF	Published value from supplied target entry
Plate to Cathode, Grid No	2.8 pF	Published value from supplied target entry

TUBE TINKER

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