

ELECTRONIC TUBE REFERENCE

10LE8

Voltage - Dual Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-PENTODE

Twin-pentode television tube used as a combined color demodulator and matrix amplifier in high-level color-demodulation systems.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9DP	BASE PINS	9
NOMINAL HEATER	10 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9DP - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – D2	A	D2 – 2nd Dynode	CONNECTED
PIN2 – D1	A	D1 – 1st Dynode	CONNECTED
PIN3 – G3	A	G3 – Suppressor Grid	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – G2	A	G2 – Screen Grid	CONNECTED
PIN5 – IS	A	IS – Internal Screen	CONNECTED
PIN5 – H	–	H – Heater	CONNECTED
PIN6 – G1	A	G1 – Control Grid	CONNECTED
PIN7 – K	A	K – Cathode	CONNECTED
PIN8 – P1	A	P – Plate (Anode)	CONNECTED
PIN9 – P2	A	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	50000 Ω
TRANSCONDUCTANCE	0.006 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.5 W
<i>dual-control</i>	

SECTION2 Pentode	
PLATE RESISTANCE	50000 Ω
TRANSCONDUCTANCE	0.006 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.5 W
<i>dual-control; second physical pentode section added to align section rows with SectionCount</i>	

Miniature type used as combined color demodulator and matrix amplifier in color television receivers utilizing high-level demodulation systems. Outlines section, 6G; requires miniature 9-contact socket. Types 10LE8 and 15LE8 are identical with type 6LE8 except 9QZ for heater ratings. 6LE8 10LE8 15LE8



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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	300 V	Inherited from explicitly referenced 6-volt parent type
Maximum Screen Voltage	300 V	Inherited from explicitly referenced 6-volt parent type
Plate Dissipation	2.5 W	Inherited from explicitly referenced 6-volt parent type

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	6000 μ S	Inherited from explicitly referenced 6-volt parent type



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 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
For grid-No	1.1 volts	Published value from supplied target entry
For grid-No	300 volts	Published value from supplied target entry
Grid-No	1	Published value from supplied target entry

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
# Pulse duration must not exceed	10	Published value from supplied target entry
Heater Voltage (ac/dc)	15 volts	Published value from supplied target entry
Heater Current	0.3 ampere	Published value from supplied target entry
Heater Warm-up Time (Average)	11 seconds	Published value from supplied target entry
Plate Voltage (Each Unit)	300 volts	Published value from supplied target entry
Grid-No	150 volts	Published value from supplied target entry
Plate Dissipation (Each Unit)	2 watts	Published value from supplied target entry
Grid-No	2 watts	Published value from supplied target entry
Plate Voltage	100 volts	Published value from supplied target entry
Grid-No	0 volts	Published value from supplied target entry
Grid-No	100 volts	Published value from supplied target entry
Grid-No.1 (Control-Grid) Voltage, Negative-bias value	2.5 volts	Published value from supplied target entry
Transconductance (App	350	Published value from supplied target entry
Plate Resistance (Approx.)	50000 ohms	Published value from supplied target entry
Plate Current	7.6	Published value from supplied target entry
Grid-No	14.5	Published value from supplied target entry
Grid-No.1 Voltage for plate current of	-7.2 volts	Published value from supplied target entry
Grid-No.1 Voltage for plate current of	-6.3 volts	Published value from supplied target entry
Grid-No	-17.4 volts	Published value from supplied target entry
Grid-No	-16.5 volts	Published value from supplied target entry

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