

ELECTRONIC TUBE REFERENCE

LCL84

Voltage Triode Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

Television triode-pentode with sync/control triode and video-output pentode; pentode plate dissipation is about 4 watts.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9HX	BASE PINS	9
NOMINAL HEATER	10.2 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

9HX - TERMINAL PINOUT

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

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	6500 Ω
TRANSCONDUCTANCE	0.01 S
AMPLIFICATION FACTOR	65
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	1 W
MAXIMUM CATHODE CURRENT	12 mA
<i>High-mu triode unit.</i>	

SECTION2 Pentode	
PLATE RESISTANCE	100000 Ω
TRANSCONDUCTANCE	0.011 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	4 W
MAXIMUM SCREEN DISSIPATION	1.7 W
MAXIMUM CATHODE CURRENT	40 mA
<i>Sharp-cutoff video-output pentode unit; promoted characteristics use the 170 V published point.</i>	

Miniature type used in color and black-and-white tele- vision-receiver applications. The triode unit is used as 9HX a sync-separator, sync-amplifier, keyed-age, or noise- suppressor tube. The pentode unit is used as a video-output tube. Outlines section, 6E; requires miniature 9-contact socket. Type 10DX8/LCL84 is identical with type 6DX8/ECL84 except for heater ratings. 6DX8/ECL84 10DX8/LCL84

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 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage (ac/dc)	10.2 volts	Published value from supplied target entry
Heater Current	0.45 ampere	Published value from supplied target entry
Plate Supply Voltage	550 volts	Published value from supplied target entry
Plate Voltage	300 volts	Published value from supplied target entry
Grid-No	2	Published value from supplied target entry
Grid-No	300 volts	Published value from supplied target entry
Cathode Current	40 mA	Published value from supplied target entry
Plate Dissipation	4 watts	Published value from supplied target entry
Grid-No	1.7 watts	Published value from supplied target entry
Plate Voltage	220 volts	Published value from supplied target entry
Grid-No	200	Published value from supplied target entry
Grid No.1 Voltage	-3.4 volts	Published value from supplied target entry
Amplification Factor	65	Published value from supplied target entry
Mu-Factor, Grid-No	36	Published value from supplied target entry
Plate Resistance (Approx.)	0.15 megohm	Published value from supplied target entry
Transconductance	10000	Published value from supplied target entry
Plate Current	18 mA	Published value from supplied target entry
Grid-No	3 mA	Published value from supplied target entry
Heater Voltage (ac/dc)	6.3 volts	Published value from supplied target entry
Heater Current	0.225 ampere	Published value from supplied target entry

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Heater-Cathode Voltage ±	200 volts	Published value from supplied target entry

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to Plate	8 pF	Published value from supplied target entry
Grid to Cathode and Heater	2.2 pF	Published value from supplied target entry
Plate to Cathode and Heater	1.3 pF	Published value from supplied target entry