

ELECTRONIC TUBE REFERENCE

10LB8

Voltage - Triode Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

Frame-grid sharp-cutoff pentode combined with a medium-mu triode for television video-amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9DX	BASE PINS	9
NOMINAL HEATER	10.2 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Capable
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 Triode	
PLATE RESISTANCE	6000 Ω
TRANSCONDUCTANCE	0.005 S
AMPLIFICATION FACTOR	30
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2 W
<p><i>RCA/Sylvania 10LB8 medium-mu voltage-amplifier triode. Typical V_a 125 V, cathode resistor 68 ohms, gm 5 mA/V, mu 30, plate resistance 6 kΩ, plate current 13 mA. Max plate 330 V, dissipation 2 W. Combined dissipation of triode and video pentode anodes must not exceed 5 W, despite individual 2 W and 4 W ratings. 10.2 V 0.45 A series heater, interelectrode capacitances published.</i></p>	

SECTION2 Pentode	
PLATE RESISTANCE	50000 Ω
TRANSCONDUCTANCE	0.02 S
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	4 W
MAXIMUM SCREEN DISSIPATION	1.1 W
<p><i>RCA/Sylvania 10LB8 sharp-cutoff frame-grid TV video pentode. Typical plate 200 V, screen 100 V, cathode resistor 82 ohms, plate current 17 mA, gm 20 mA/V, plate resistance ~50 kΩ. Max plate 330 V and dissipation 4 W. Screen dissipation 1.1 W up to 165 V screen, other conditions per rating chart. Sum of triode and pentode plate dissipations must not exceed 5 W. Published interelectrode capacitances.</i></p>	

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