

ELECTRONIC TUBE REFERENCE

10JY8

Voltage - Triode Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

Television triode-pentode with a video-amplifier pentode and sync-separator triode for receiver signal-processing stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9DX	BASE PINS	9
NOMINAL HEATER	10.5 V / 450 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	55000 Ω
TRANSCONDUCTANCE	0.011 S
AMPLIFICATION FACTOR	46
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	165 V
MAXIMUM PLATE DISSIPATION	5 W
MAXIMUM SCREEN DISSIPATION	1.1 W
<i>Published maximum ratings, characteristics, typical operation, and capacitance material reviewed.</i>	

SECTION2 Triode	
PLATE RESISTANCE	4400 Ω
TRANSCONDUCTANCE	0.0104 S
AMPLIFICATION FACTOR	46
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2 W
<i>Published maximum ratings, characteristics, typical operation, and capacitance material reviewed.</i>	

Miniature type used in television receiver applications. The pentode unit is used as a video amplifier, and the triode unit as a sync separator. Outlines section, 6E; requires miniature 9-contact socket.

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
Plate Voltage	330 V	—
Plate Voltage	-55611 V	—
Screen Voltage	1 V	—
Screen Voltage	55611 V	—
Plate Dissipation	5 W	—
ScreenDissipation	1.1 W	—
Plate Current	15 mA	—
Screen Current	2 mA	—
Screen Current	2 mA	—
Plate Voltage	200 V	AverageCharacteristics
Screen Voltage	150 V	AverageCharacteristics

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GridNumber1toPlateCapacitance	0.08 pF	—
Input Capacitance	10 pF	—
Output Capacitance	46 pF	—
GridtoPlateCapacitance	2.8 pF	—
Input Capacitance	42 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	24 mA	AverageCharacteristics
Screen Current	4.8 mA	AverageCharacteristics

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	125 V	Average Characteristics

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	15 mA	Average Characteristics



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	18 mA	Published value from supplied target entry
Grid-No	4	Published value from supplied target entry
for plate current of	-5 volts	Published value from supplied target entry
(ac/dc),	0.45 amperes	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	165 volts	Published value from supplied target entry
For Grid-No	300 volts	Published value from supplied target entry
Plate Voltage	200 volts	Published value from supplied target entry
Grid-No	150 volts	Published value from supplied target entry

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-No.1 Voltage	0 volts	Published value from supplied target entry
Amplification Factor	46	Published value from supplied target entry
Plate Current	24 mA	Published value from supplied target entry
Grid-No	18 mA	Published value from supplied target entry
Grid Voltage (Approx.) for plate current of	-4.8	Published value from supplied target entry
Grid-No	1	Published value from supplied target entry

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