

ELECTRONIC TUBE REFERENCE

8AL9

Voltage - Triode Pentode electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
PENTODE-TRIODE

Compactron high-mu triode and sharp-cutoff pentode; the triode is general-purpose and the pentode serves as a video amplifier.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12HE	BASE PINS	12
NOMINAL HEATER	8.6 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

12HE - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	–	H – Heater	CONNECTED
PIN2	A	P – Plate (Anode)	CONNECTED
PIN4	A	G3 – Suppressor Grid	CONNECTED
PIN5	B	–	UNKNOWN
PIN6	B	K – Cathode	CONNECTED
PIN7	B	P – Plate (Anode)	CONNECTED
PIN8	–	IS – Internal Screen	CONNECTED
PIN9	A	K – Cathode	CONNECTED
PIN10	A	G2 – Screen Grid	CONNECTED
PIN11	B	G1 – Control Grid	CONNECTED
PIN12	–	H – Heater	CONNECTED

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	40000 Ω
TRANSCONDUCTANCE	0.03 S
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	1.5 W
MAXIMUM SCREEN DISSIPATION	1.5 W
<i>Pentode section.</i>	

SECTION2 Triode	
PLATE RESISTANCE	9200 Ω
TRANSCONDUCTANCE	0.0063 S
AMPLIFICATION FACTOR	59
<i>Triode section.</i>	

Compactron high-mu triode and sharp-cutoff pentode; triode is general-purpose and pentode is a video amplifier.



SOURCE OPERATING CONDITIONS

1950 Sylvania

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1950 SYLVANIA

Section 1 · Pentode

APPLICATION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Primary application	Video amplifier	—



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
HeaterOrFilamentVoltageNominal	8.6 V	—
HeaterOrFilamentCurrentNominal	600 mA	—

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PentodePlateResistance	40000 Ohm	Section1
PentodeTransconductance	30000 uS	Section1

1968 GENERAL ELECTRIC CO

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TriodeAmplificationFactor	59	Section2
TriodePlateResistance	9200 0hm	Section2
TriodeTransconductance	6300 uS	Section2

TUBE TINKER

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