

ELECTRONIC TUBE REFERENCE

6MB8

Voltage - Triode Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

Combined triode-pentode for television video, sync, burst, IF, AGC, or related signal-processing circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9FA	BASE PINS	9
NOMINAL HEATER	6.3 V / 400 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

9FA - 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	G2 – Screen Grid	CONNECTED
PIN8	A	G3 – Suppressor Grid	CONNECTED
PIN8	A	K – Cathode	CONNECTED
PIN8	–	IS – Internal Screen	CONNECTED

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	125000 Ω
TRANSCONDUCTANCE	0.012 S
AMPLIFICATION FACTOR	40
MAXIMUM PLATE VOLTAGE	280 V
MAXIMUM PLATE DISSIPATION	2 W
<i>Published source values promoted where applicable.</i>	

SECTION2 Pentode	
PLATE RESISTANCE	200000 Ω
TRANSCONDUCTANCE	0.013 S
MAXIMUM PLATE VOLTAGE	280 V
MAXIMUM SCREEN VOLTAGE	280 V
MAXIMUM PLATE DISSIPATION	2 W
<i>Published source values promoted where applicable.</i>	

Miniature type with frame-grid pentode unit used in color television receivers. The triode unit is used in video-amplifier applications. The pentode unit is used in burst-amplifier service. Outlines section, 6B; requires miniature 9-contact socket. Type 5MB8 is identical with 9FA type 6MB8 except for heater ratings. 5MB8 6MB8 Heater Arrangement Series Parallel



SOURCE OPERATING CONDITIONS

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1950 Sylvania

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

1950 SYLVANIA

Section 1 · Triode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Service	Video amplifier	—

1950 SYLVANIA

Section 2 · Pentode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Service	Burst amplifier	—



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage (ac/dc)	6.3 volts	Published value from supplied target entry
Heater Current	0.4 ampere	Published value from supplied target entry
Heater Warm-up Time	11 seconds	Published value from supplied target entry
Plate Voltage	280 volts	Published value from supplied target entry
Grid-No	280 volts	Published value from supplied target entry
Grid-No	300 volts	Published value from supplied target entry

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-No	300	Published value from supplied target entry
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0 volt	Published value from supplied target entry
Plate Dissipation	2 watts	Published value from supplied target entry
Cathode Current	20 mA	Published value from supplied target entry
Grid-No	0.5 watt	Published value from supplied target entry
Plate Voltage	125 volts	Published value from supplied target entry
Grid-No	125 volts	Published value from supplied target entry
Grid-No.1 Voltage	0 volt	Published value from supplied target entry
Plate Current	8 mA	Published value from supplied target entry
Grid-No	2 mA	Published value from supplied target entry
Transconductance	12000	Published value from supplied target entry
Amplification Factor	40	Published value from supplied target entry
Plate Resistance (Approx.)	125000 ohms	Published value from supplied target entry
Grid-No.1 Voltage for plate current of	5 volts	Published value from supplied target entry
Grid-No.1 Voltage for plate current of	3 volts	Published value from supplied target entry

TUBE TINKER

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