

ELECTRONIC TUBE REFERENCE

5MQ8

Voltage Triode Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

Triode-pentode for color and monochrome television band-pass, video, sync, color-killer, matrix, and blanking circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9FA	BASE PINS	9
NOMINAL HEATER	5.6 V / 600 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	150000 Ω
TRANSCONDUCTANCE	0.01 S
AMPLIFICATION FACTOR	40
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2.5 W
<i>Published maximum ratings, characteristics, typical operation, rectifier data, and capacitances reviewed.</i>	

SECTION2 Pentode	
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2.5 W
<i>Published maximum ratings, characteristics, typical operation, rectifier data, and capacitances reviewed.</i>	

Miniature type used in color and black-and-white tele- 0| i ^/iXX/s //A ^kt vision receiver applications. The pentode unit is used ± 200 in band-pass-amplifier applications. The triode unit is Pf-' used in video-amplifier, sync-separator, color-killer- control, matrix-amplifier, and blanker applications. Outlines section, 6B; requires miniature 9-contact socket. Type 5MQ8 is identical with type 6MQ8 except for heater ratings. 5MQ8 6MQ8

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)	6.3 volts	Published value from supplied target entry
Heater Current	0.535 ampere	Published value from supplied target entry
Heater Warm-up Time	11 seconds	Published value from supplied target entry
DC Plate Voltage	330 volts	Published value from supplied target entry
DC Grid-No	2	Published value from supplied target entry
Plate Dissipation	2.5 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
DC Plate Voltage	125 volts	Published value from supplied target entry
Amplification Factor	40	Published value from supplied target entry
Plate Resistance (Approx.)	150	Published value from supplied target entry
Transconductance	10000	Published value from supplied target entry
DC Plate Current	12 mA	Published value from supplied target entry
Grid-No.1 Voltage for plate current of	100	Published value from supplied target entry
Heater Voltage	6.3 volts	Published value from supplied target entry
Heater Current	0.6 ampere	Published value from supplied target entry
Heater to Triode Cathode	4.4	Published value from supplied target entry

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to Plate	1.7 pF	Published value from supplied target entry

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate to Cathode, Heater, Grid No	2	Published value from supplied target entry
Grid to Plate	2.2 pF	Published value from supplied target entry
Heater to Pentode Cathode	5.5 pF	Published value from supplied target entry
Pentode Plate to Triode Plate	0.09 pF	Published value from supplied target entry