

ELECTRONIC TUBE REFERENCE

9MN8

Voltage - Triple Triode electronic tube

CONSOLIDATED TECHNICAL DATA
3 SECTIONS
CONSTRUCTION
TRIODE-TRIODE-TRIODE

High-mu triple triode for matrix-amplifier applications in color television receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12HU	BASE PINS	12
NOMINAL HEATER	9.5 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	10000 Ω
TRANSCONDUCTANCE	0.004 S
AMPLIFICATION FACTOR	40
MAXIMUM PLATE VOLTAGE	330 V
Representative row for three identical triodes. Uploaded sheet is reference/equivalence-only; identical to 6MN8 except heater characteristics/ratings; promoted electrical values intentionally not inferred.	

SECTION2 Triode	
PLATE RESISTANCE	10000 Ω
TRANSCONDUCTANCE	0.004 S
AMPLIFICATION FACTOR	40
MAXIMUM PLATE VOLTAGE	330 V
Physical triode restored from RCA triple-triode data.	

SECTION3 Triode	
PLATE RESISTANCE	10000 Ω
TRANSCONDUCTANCE	0.004 S
AMPLIFICATION FACTOR	40
MAXIMUM PLATE VOLTAGE	330 V
<i>Physical triode restored from RCA triple-triode data.</i>	

High-mu triple triode for matrix-amplifier applications in color television receivers.



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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage AC or DC#	95 V	GENERAL
Heater Current e e 0 6+	40 mA	GENERAL
Heater Warm-up Time average it	11 s	GENERAL
Heater voltage for a bogey tube at If	600 mA	GENERAL
The time required for the voltage across the heater to reach	80 %	GENERAL



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
0. 'J	600 mA	Other
Published value	11 s	Other
Peak value	200 V	Other;PublishedValue1
Peak value	200 V	Other;PublishedValue2

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average value	100 V	Other;PublishedValue1
Average value	100 V	Other;PublishedValue2
Plate Voltage	330 V	MaximumRating
Grid Voltage, Positive-bias value	0 V	MaximumRating
Maximum Plate Voltage	330 V	Section1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to Plate	2.6 pF	Capacitance;PublishedValue1
Grid to Plate	2.6 pF	Capacitance;PublishedValue2
Grid to Plate	2.6 pF	Capacitance;PublishedValue3
Grid to Cathode and Heater	4.6 pF	Capacitance;PublishedValue1
Grid to Cathode and Heater	4.6 pF	Capacitance;PublishedValue2
Grid to Cathode and Heater	4.6 pF	Capacitance;PublishedValue3
Plate to Cathode and Heater	0.33 pF	Capacitance;PublishedValue1
Plate to Cathode and Heater	0.57 pF	Capacitance;PublishedValue2
Plate to Cathode and Heater	0.65 pF	Capacitance;PublishedValue3

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	125 V	Characteristic;PublishedValue1
Plate Voltage	200 V	Characteristic;PublishedValue2
Grid Voltage .	-1 V	Characteristic;PublishedValue1
Grid Voltage .	-4 V	Characteristic;PublishedValue2
Plate Resistance (Approx.)	6250 ohm	Characteristic;PublishedValue1
Plate Resistance (Approx.)	10000 ohm	Characteristic;PublishedValue2
Plate Current	11 mA	Characteristic;PublishedValue1
Plate Current	4.8 mA	Characteristic;PublishedValue2
Grid Voltage (Approx.) for plate current f	50 V	Characteristic;PublishedValue1
Grid Voltage (Approx.) for plate current f	-11 V	Characteristic;PublishedValue2
Plate Resistance	10000 ohm	Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	4000 uS	Section1
Amplification Factor	40	Section1