

ELECTRONIC TUBE REFERENCE

6GF7A

Power - TV Vertical Output electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
TRIODE-TRIODE

Dual triode intended for television vertical-deflection service, combining oscillator/driver and power-output functions where applicable. Manufacturer data emphasize vertical-sweep operation, pulse-voltage capability, and the stronger section's current and dissipation requirements.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9QD	BASE PINS	9
NOMINAL HEATER	6.3 V / 985 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

9QD - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	A	K – Cathode	CONNECTED
PIN2	–	–	UNKNOWN
PIN3	B	K – Cathode	CONNECTED
PIN4	–	H – Heater	CONNECTED
PIN5	–	H – Heater	CONNECTED
PIN6	B	P – Plate (Anode)	CONNECTED
PIN8	A	P – Plate (Anode)	CONNECTED
PIN9	–	–	UNKNOWN

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	40000 Ω
TRANSCONDUCTANCE	0.0016 S
AMPLIFICATION FACTOR	64
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	22 mA
<i>Vertical-oscillator section.</i>	

SECTION2 Triode	
PLATE RESISTANCE	750 Ω
TRANSCONDUCTANCE	0.0072 S
AMPLIFICATION FACTOR	5.4
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	11 W
MAXIMUM CATHODE CURRENT	50 mA
<i>Vertical-deflection amplifier section; 1500 V pulse plate rating preserved as parameter.</i>	

Dissimilar dual triode for television vertical oscillator and vertical-deflection amplifier service.



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
Typical Plate Voltage	250 V	Section1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical Plate Current	1.4 mA	Section1

1968 GENERAL ELECTRIC CO

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Positive Pulse Plate Voltage	1500 V	Section2
Typical Plate Voltage	150 V	Section2



SOURCE OPERATING CONDITIONS

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1971 RCA HB3 Binder 5 of 7

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

1971 RCA HB3 BINDER 5 OF 7

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	985 mA	—
Plate voltage	250 V	Section1;ClassA
Plate current	1.4 mA	Section1;ClassA
Maximum plate voltage	330 V	Section1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	40000 ohm	Section1
Transconductance	2000 uS	Section1
Amplification factor	70	Section1

1971 RCA HB3 BINDER 5 OF 7

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	150 V	Section2;ClassA
Plate current	50 mA	Section2;ClassA
Maximum plate voltage	330 V	Section2
Peak positive-pulse plate voltage	1500 V	Section2;VerticalDeflection

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	750 ohm	Section2
Transconductance	8000 uS	Section2
Amplification factor	6	Section2



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ELECTRON TUBE DATABASE

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	4.6 pF	—
Grid-to-cathode/heater capacitance	2.4 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA
Grid voltage	-3 V	ClassA
Plate current	1.4 mA	ClassA
Average cathode current	22 mA	VerticalDeflection

1975 RCA RC30

Section 2 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	9 pF	—
Grid-to-cathode/heater capacitance	6.5 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	150 V	ClassA
Grid voltage	-20 V	ClassA
Plate current	50 mA	ClassA
Peak positive-pulse plate voltage	1500 V	VerticalDeflection
Average cathode current	60 mA	VerticalDeflection

TUBE TINKER

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