



ELECTRONIC TUBE REFERENCE

6EA7

Power - TV Vertical Output electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Dissimilar dual triode designed as a television vertical-deflection oscillator and amplifier. A high-gain section drives the circuit while the low-mu power section supplies the current and pulse capability required by the vertical output stage.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8B0	BASE PINS	8
NOMINAL HEATER	6.3 V / 1.05 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	34000 Ω
TRANSCONDUCTANCE	0.0019 S
AMPLIFICATION FACTOR	45
MAXIMUM PLATE VOLTAGE	350 V
MAXIMUM PLATE DISSIPATION	1 W
MAXIMUM CATHODE CURRENT	20 mA
Section 1, vertical oscillator service.	

SECTION2 Triode	
PLATE RESISTANCE	770 Ω
TRANSCONDUCTANCE	0.0065 S
AMPLIFICATION FACTOR	5
MAXIMUM PLATE VOLTAGE	550 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM CATHODE CURRENT	50 mA
<i>Section 2, vertical-deflection amplifier service; 50 mA DC cathode-current maximum.</i>	

Glass octal dissimilar dual triode used as a combined vertical-deflection oscillator and vertical-deflection amplifier in color and black-and-white television receivers.



SOURCE OPERATING CONDITIONS

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1966 Tung Sol Electronic Tubes 2 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	Section1;Oscillator
Maximum peak negative grid voltage	400 V	Section1;Oscillator

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak positive pulse plate voltage	1500 V	Section2;VerticalDeflection
Peak cathode current	175 mA	Section2;VerticalDeflection



SOURCE OPERATING CONDITIONS

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1968 General Electric Co

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1968 GENERAL ELECTRIC CO

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	Oscillator
Plate Current	1.5 mA	Oscillator

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	175 V	Amplifier
Plate Current	48 mA	Amplifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Positive Pulse Plate Voltage	1500 V	VerticalDeflectionAmplifier
Peak Cathode Current	175 mA	VerticalDeflectionAmplifier



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1971 RCA HB3 Binder 4 of 7

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	1.05 A	—
Plate voltage	250 V	Section1;ClassA
Grid voltage	-3 V	Section1;ClassA
Plate current	2.5 mA	Section1;ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	66	Section1
Plate resistance	25000 ohm	Section1
Transconductance	2600 uS	Section1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	4 pF	Section1

1971 RCA HB3 BINDER 4 OF 7

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	175 V	Section2;ClassA
Grid voltage	-25 V	Section2;ClassA
Plate current	50 mA	Section2;ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	5.5	Section2
Plate resistance	900 ohm	Section2
Transconductance	6100 uS	Section2

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	8.5 pF	Section2



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ELECTRON TUBE DATABASE

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1975 RCA RC30

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1975 RCA RC30

Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to Plate	4.8 pF	Section1
Grid to Cathode and Heater	2.2 pF	Section1
Plate to Cathode and Heater	0.6 pF	Section1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	ClassA
Grid Voltage	-3 V	ClassA
Plate Current	1.4 mA	ClassA

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Negative-Pulse Grid Voltage	400 V	VerticalDeflection

1975 RCA RC30

Section 2 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to Plate	10 pF	Section2
Grid to Cathode and Heater	7 pF	Section2
Plate to Cathode and Heater	1.8 pF	Section2

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	150 V	ClassA
Grid Voltage	-20 V	ClassA
Plate Current	50 mA	ClassA

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Positive-Pulse Plate Voltage	1500 V	VerticalDeflection
Average Cathode Current	50 mA	VerticalDeflection

TUBE TINKER

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