



ELECTRONIC TUBE REFERENCE

5794A

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

RCA 5794A (6562) fixed-tuned 1680 MHz radiosonde oscillator triode with integral resonators and 50 Ω coaxial output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6 V / 160 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
MAXIMUM PLATE VOLTAGE	120 V
MAXIMUM PLATE DISSIPATION	3.6 W
<i>RCA 6562/5794A 1680 MHz radiosonde fixed-tuned oscillator with two integral resonators. Max DC plate 120 V, current 34 mA, grid current 8 mA, plate input 4 W, dissipation 3.6 W, ambient -55 to +75°C. Heater 5.2–6.6 V, nominal 6 V 0.16 A. Power output approx 600 mW at 6.6 V heater, 117 V plate; minimum 300 mW at 5.2 V heater, 95 V plate. 50 Ω coaxial RF output, ± 12 MHz mechanical frequency adjustment, grid resistor selected per tube 1300–2400 Ω. No intrinsic gm, mu or rp specified.</i>	

Fixed-tuned oscillator triode with two resonators integral with the tube, intended for radiosonde service at about 1680 MHz.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 6 of 7

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

1971 RCA HB3 BINDER 6 OF 7

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage range (AC or DC) – published value 1	5	Published datasheet value
Voltage range (AC or DC) – published value 2	2	Published datasheet value
Voltage range (AC or DC) – published value 3	6.6	Published datasheet value
Current at heater volts = 6.0 – published value 1	6 A	Published datasheet value
Current at heater volts = 6.0 – published value 2	160 mA	Published datasheet value
Frequency (Approx.)	1680 MHz	Published datasheet value
AMBIENT-TEMPERATURE RANGE – published value 1	-55	Published datasheet value
AMBIENT-TEMPERATURE RANGE – published value 2	75	Published datasheet value
For heater voltage range of 5.2 to 6.6 – published value 1	5.2	Published datasheet value
For heater voltage range of 5.2 to 6.6 – published value 2	6.6	Published datasheet value
volts, plate voltage range of 95 to 1 17 – published value 1	95	Published datasheet value
volts, plate voltage range of 95 to 1 17 – published value 2	1	Published datasheet value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
volts, plate voltage range of 95 to 117 – published value 3	17	Published datasheet value
Heater Current – published value 1	1 A	Published datasheet value
Heater Current – published value 2	135 mA	Published datasheet value
Heater Current – published value 3	148 mA	Published datasheet value
Heater Current – published value 4	157 mA	Published datasheet value
Power Output – published value 1	24	Published datasheet value
Power Output – published value 2	600	Published datasheet value
Power Output – published value 1	34	Published datasheet value
Power Output – published value 2	300	Published datasheet value
Note 1 – published value 1	1	Published datasheet value
Note 1 – published value 2	5.2	Published datasheet value
Note 2 – published value 1	2	Published datasheet value
Note 2 – published value 2	6.6	Published datasheet value
Note 2 – published value 3	117	Published datasheet value
volts, frequency of 1680 Mc, and grtlt resistor having resistance	1680 MHz	Published datasheet value
plate current will not exceed 3>1 milliamperes. The value used – published value 1	3 mA	Published datasheet value
plate current will not exceed 3>1 milliamperes. The value used – published value 2	1 mA	Published datasheet value
Note 3 – published value 1	3	Published datasheet value
Note 3 – published value 2	5.2	Published datasheet value
Note 3 – published value 3	95	Published datasheet value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
volts, frequency of 1680 Mc, and grid-resistor value specified	1680 MHz	Published datasheet value
plate current will not exceed 34 milliamperes under the specified load	34 A	Published datasheet value
Note 4	4	Published datasheet value
The flexible heater leads of the 6562/5794A are usually – published value 1	6562	Published datasheet value
The flexible heater leads of the 6562/5794A are usually – published value 2	5794	Published datasheet value
1.750" – published value 1	1.75	Published datasheet value
1.750" – published value 2	2	Published datasheet value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC PLATE VOLTAGE	120 mA	Published datasheet value
DC PLATE CURRENT	34 mA	Published datasheet value
DC GRID CURRENT	8 mA	Published datasheet value
PLATE INPUT	4 mA	Published datasheet value
PLATE DISSIPATION	3.6 mA	Published datasheet value
Imately 50 ohms and adjusted for maximum voltage standing wave	50 ohm	Published datasheet value

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker