



ELECTRONIC TUBE REFERENCE

6562

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

RCA 6562 (5794A) pencil-type fixed-tuned UHF radiosonde oscillator triode with integral resonators, operating near 1680 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
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
MAXIMUM CATHODE CURRENT	34 mA
<i>RCA 6562/5794A 1680 MHz radiosonde fixed-tuned oscillator triode, integral resonators, mechanical tuning ± 12 MHz, coaxial RF output 50 Ω. Max plate 120 V, plate current 34 mA, grid current 8 mA, plate input 4 W, dissipation 3.6 W. Heater 5.2–6.6 V, nominal 6 V 0.16 A. Approx 600 mW RF at heater 6.6 V plate 117 V; min 300 mW at heater 5.2 V plate 95 V. No published intrinsic μ, gm, rp. Special mechanical handling and spring electrode contacts.</i>	

Integral-cavity triode oscillator assembly for battery-powered radiosonde transmitters near 1680 MHz. Electrical ratings, characteristics, operating data, and special environmental information were extracted from the supplied source.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1940 RCA

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

1940 RCA

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency	1680 MHz	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power Output	600 mW	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1956 RCA Transmitting Tubes

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

1956 RCA TRANSMITTING TUBES

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage Minimum	5.2 V	Radiosonde service
Heater Voltage Maximum	6.6 V	Radiosonde service
Operating Frequency	1680 MHz	Approximate
Frequency Adjustment Range	12 MHz	Plus/minus
Ambient Temperature Minimum	-55 degC	—
Ambient Temperature Maximum	75 degC	—

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 RCA Industrial and Communications Types

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

1960 RCA INDUSTRIAL AND COMMUNICATIONS TYPES

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	135 mA	—
Reference Type	5794A	—
OperatingFrequency	1680 MHz	FixedTunedRadiosondeOscillator

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6 V	Nominal
Heater current	160 mA	Nominal
Operating frequency	1680 MHz	ClassC; Oscillator
Plate input maximum	4 W	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	34 mA	Published operating table; OperatingPoint1
Tuning range minimum	1668 MHz	—
Tuning range maximum	1692 MHz	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 4 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 4 OF 4

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
LIMITS OF APPLIED VOLTAGE – published value 1	5.2 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
LIMITS OF APPLIED VOLTAGE – published value 2	6.6 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
DC PLATE-TO-GRID VOLTAGE	120 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
PLATE DISSIPATION	3.6 W	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
DC GRID CURRENT	8 mA	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
AMBIENT TEMPERATURE – published value 1	-55 C	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
AMBIENT TEMPERATURE – published value 2	75 C	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
OPERATING FREQUENCY	1660 MHz	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC PLATE SUPPLY VOLTAGE	105 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
STATED PLATE CURRENT AVG. VALUE	1800	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
DC PLATE CURRENT	25.5 mA	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
DC GRID CURRENT	3.5 mA	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
USEFUL POWER OUTPUT (APPROX.)	370	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
HEATER CURRENT AT $E_f=5.2$ V. – published value 1	135 mA	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
HEATER CURRENT AT $E_f=5.2$ V. – published value 2	157 mA	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	120 V	Promoted section value from the supplied datasheet.
Maximum plate dissipation	3.6 W	Promoted section value from the supplied datasheet.



SOURCE DATA APPENDIX

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
volts, plate voltage range of 95 to 1 17 – 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

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
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 grtll 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
volts, frequency of 1680 Mc, and grid-resistor value specified	1680 MHz	Published datasheet value
plate current wlll not exceed 34 ml lliamperes under the speclf letl	34 A	Published datasheet value
Nate 4	4	Published datasheet value
The flexible heater leads of the 6562/5794A are usual ly – published value 1	6562	Published datasheet value
The flexible heater leads of the 6562/5794A are usual ly – published value 2	5794	Published datasheet value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
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 amaximum voltage standing wave	50 ohm	Published datasheet value

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