ELECTRONIC TUBE REFERENCE

6026

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Subminiature high-efficiency oscillator triode for radiosonde and transmitting service.

General characteristics

BASE DESIGNATION	–	**BASE PINS**	9
NOMINAL HEATER	6.3 V / 200 mA	**PARALLEL HEATER**	– / –
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Triode

PLATE RESISTANCE	11000 Ω
TRANSCONDUCTANCE	0.0059 S
AMPLIFICATION FACTOR	24
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM CATHODE CURRENT	40 mA
MAXIMUM HEATER-CATHODE VOLTAGE	0 V

Representative electrical section from supplied RCA data sheet.

The 6026 is a round subminiature high-efficiency oscillator triode with flexible leads, intended particularly for radiosonde and similar transmitting applications and capable of useful Class C RF output.

SOURCE OPERATING CONDITIONS

1940 RCA

SOURCE PDF

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

1940 RCA

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Heater or filament voltage	**6.3 V**	Published nominal value
Heater or filament current	**200 mA**	Published nominal value
Amplification factor	**31**	Published operating characteristic
Heater voltage range	**5.2–6.6 V**	Battery/radiosonde service

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Maximum plate dissipation	**3 W**	Published maximum rating
Oscillator frequency	**400 MHz**	ClassC; Telegraphy
RF power output	**1.25 W**	ClassC oscillator at 400 MHz

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1956 RCA Transmitting Tubes

SOURCE PDF

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1956 RCA TRANSMITTING TUBES

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
HeaterOrFilamentVoltage	**6.3 V**	—
HeaterOrFilamentCurrent	**200 mA**	—

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
MaximumOperatingFrequency	**400 MHz**	—

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

CHARACTERISTICS		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Heater Voltage	**6.3 V**	—

SOURCE OPERATING CONDITIONS

SOURCE PDF

1961 Tung Sol

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1961 TUNG SOL

Section 1 · Triode

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Oscillator Frequency	**400 MHz**	ClassC
Power Output	**1.25 W**	ClassC;Oscillator
Plate Input	**3.3 W**	ClassC

SOURCE OPERATING CONDITIONS

1966 Tung Sol Electronic Tubes 4 of 4

SOURCE PDF

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1966 TUNG SOL ELECTRONIC TUBES 4 OF 4

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Grid-to-plate capacitance	**1.3 pF**	WholeTube
Input capacitance	**2 pF**	WholeTube
Output capacitance	**0.42 pF**	WholeTube

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Maximum DC plate voltage	**150 V**	ClassCOscillator
Maximum negative DC grid voltage	**50 V**	ClassCOscillator
Maximum total cathode current	**40 mA**	ClassCOscillator
Maximum DC grid current	**10 mA**	ClassCOscillator
Maximum plate input	**3.3 W**	ClassCOscillator
Maximum plate dissipation	**3 W**	ClassCOscillator
DC plate voltage	**135 V**	Oscillator400MHz
Grid resistor	**1300 ohm**	Oscillator400MHz
DC plate current	**20 mA**	Oscillator400MHz
DC grid current	**9.5 mA**	Oscillator400MHz
Useful power output	**1.25 W**	Oscillator400MHz
Plate voltage	**120 V**	ClassA1
Cathode resistor	**220 ohm**	ClassA1
Amplification factor	**24**	ClassA1
Plate resistance	**11000 ohm**	ClassA1
Transconductance	**5900 uS**	ClassA1
Plate current	**12 mA**	ClassA1

SOURCE OPERATING CONDITIONS

1971 RCA HB3 Binder 6 of 7

SOURCE PDF

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

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Heater/filament voltage nominal	**6.3 V**	WholeTube
Heater/filament current	**200 mA**	WholeTube
Voltage range'	**5.2 V**	Published source row
Voltage range' (value 2)	**6.6 V**	Published source row
Current at	**6.3 V**	Published source row
Current at (value 2)	**0.2 V**	Published source row
DC PLATE VOLTAGE	**150 V**	Published source row
DC GRID VOLTAGE —	**50 V**	Published source row
TOTAL CATHODE CURRENT	**40 mA**	Published source row
PLATE INPUT	**3.3 W**	Published source row
PLATE DISSIPATION	**3 W**	Published source row
PEAK HEATER-CATHODE VOLTAGE	**0 V**	Published source row
Published electrical value	**0 mA**	Published source row
Published electrical value (value 2)	**20 mA**	Published source row
CC Grid Current (Approx)	**9.5 mA**	Published source row
Useful Power Output	**1.25 W**	Published source row

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Grid to cathode and heater	**2 pF**	Published source row
Plate to cathode and heater	**0.42 pF**	Published source row
Plate—Supply Voltage	**120 V**	Published source row

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	**24**	Published source row
Plate Resistance (Approx)	**4000 ohm**	Published source row
Transconductance	**5900 µS**	Published source row
Plate Current	**12 mA**	Published source row
Lead	**4**	Published source row
Lead (value 2)	**8**	Published source row
Lead	**5**	Published source row
With	**5.2 V**	Published source row
With (value 2)	**0.176 V**	Published source row
With	**6.6 V**	Published source row
With (value 2)	**0.225 V**	Published source row
Grid to cathode and heater	**1 pF**	Published source row
Grid to cathode and heater (value 2)	**1.55 pF**	Published source row
Grid to cathode and heater (value 3)	**2.45 pF**	Published source row
Plate to cathode and heater	**1 pF**	Published source row
Plate to cathode and heater (value 2)	**0.345 pF**	Published source row
Plate to cathode and heater (value 3)	**0.495 pF**	Published source row
Amplification Factor	**2**	Published source row
Amplification Factor (value 2)	**17**	Published source row
Amplification Factor (value 3)	**31**	Published source row
Transconductance	**3 µS**	Published source row
Transconductance (value 2)	**4200 µS**	Published source row
Transconductance (value 3)	**7600 µS**	Published source row
Transconductance	**4 µS**	Published source row
Transconductance (value 2)	**4600 µS**	Published source row
Transconductance (value 3)	**8000 µS**	Published source row
Plate Current	**3 mA**	Published source row
Plate Current (value 2)	**8 mA**	Published source row

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current (value 3)	**16 mA**	Published source row
Plate Current	**4 mA**	Published source row
Plate Current (value 2)	**9.5 mA**	Published source row
Plate Current (value 3)	**18.5 mA**	Published source row
Plate Current	**5**	Published source row
Plate Current (value 2)	**300**	Published source row
x ote	**2 V**	Published source row
x ote (value 2)	**5.2 V**	Published source row
x ote (value 3)	**6.3 V**	Published source row
Note	**3 V**	Published source row
Note (value 2)	**5.2 V**	Published source row
Note (value 3)	**120 V**	Published source row
Note U: With	**6.3 V**	Published source row
Note U: With (value 2)	**120 V**	Published source row
Note	**5 V**	Published source row
Note (value 2)	**5.2 V**	Published source row
Note (value 3)	**120 V**	Published source row

Tube Tinker

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