



ELECTRONIC TUBE REFERENCE

6264A

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Pencil-type UHF power triode for RF amplification and frequency multiplication. Compact low-inductance construction supports full ratings around 500 MHz and reduced-rating operation well into the gigahertz region, with approximately 13 W plate dissipation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6 V / 280 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	6000 Ω
TRANSCONDUCTANCE	0.0068 S
AMPLIFICATION FACTOR	40
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	13 W
MAXIMUM CATHODE CURRENT	70 mA
Representative electrical section from supplied RCA data sheet.	

Pencil-type UHF power triode for RF amplifier and multiplier service.



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 V	—
Heater Current	280 mA	—
Amplification Factor	40	—
Application	Frequency multiplier	MilitaryAndCriticalIndustrial



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	280 mA	Nominal
Plate voltage	200 V	Published operating table; OperatingPoint1
Plate voltage	330 V	Published operating table; OperatingPoint1
Plate voltage	400 V	Published operating table; OperatingPoint2
Frequency for full ratings	500 MHz	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum reduced-rating frequency	1700 MHz	—
Altitude for full ratings	60000 ft	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	18.5 mA	Published operating table; OperatingPoint1
Plate current	40 mA	Published operating table; OperatingPoint1
Plate current	55 mA	Published operating table; OperatingPoint2
Plate current	35 mA	Published operating table; OperatingPoint1
Plate current	40 mA	Published operating table; OperatingPoint2
Plate current	33 mA	Published operating table; OperatingPoint1
Plate current	45 mA	Published operating table; OperatingPoint2
Plate current	26 mA	Published operating table; OperatingPoint1
Plate current	36.5 mA	Published operating table; OperatingPoint2



SOURCE OPERATING CONDITIONS

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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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	6 V	—
Heater/filament current	280 mA	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application summary	Pencil-type UHF power triode for RF amplifier and multiplier service.	

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	200 V	—
Plate current	18.5 mA	—
Transconductance	6800 μ S	—
Amplification factor	40	—
Full-ratings frequency	500 MHz	—
Reduced-ratings frequency	1700 MHz	—
RF output ICAS at 500 MHz	10 W	—



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage nominal	6 V	WholeTube
Heater/filament current	280 mA	WholeTube
Current at	6 V	Published source row
Current at (value 2)	0 V	Published source row
Current at (value 3)	28 V	Published source row
Transconductance, for do plate ma	18.5 mA	Published source row
DC PLATE VOLTAGE	330 V	Published source row
DC PLATE VOLTAGE (value 2)	400 V	Published source row
DC GRID VOLTAGE	-100 V	Published source row
DC GRID VOLTAGE (value 2)	-100 V	Published source row
DC PLATE CURRENT	40 mA	Published source row
DC PLATE CURRENT (value 2)	55 mA	Published source row

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC GRID CURRENT	25 mA	Published source row
DC GRID CURRENT (value 2)	25 mA	Published source row
DC CATHODE CURRENT	55 mA	Published source row
DC CATHODE CURRENT (value 2)	70 mA	Published source row
PLATE INPUT	13.2 W	Published source row
PLATE INPUT (value 2)	22 W	Published source row
PLATE DISSIPATION	8 W	Published source row
PLATE DISSIPATION (value 2)	13 W	Published source row
DC Plate-to-Grid Voltage	325 V	Published source row
DC Plate-to-Grid Voltage (value 2)	380 V	Published source row
DC Cathode-to-Grid Voltage	25 V	Published source row
DC Cathode-to-Grid Voltage (value 2)	30 V	Published source row
DC Plate Current	35 mA	Published source row
DC Plate Current (value 2)	35 mA	Published source row
DC Grid Current (Approx.)	11 mA	Published source row
DC Grid Current (Approx.) (value 2)	13 mA	Published source row
Useful Power Output (Approx.)	5 W	Published source row
Useful Power Output (Approx.) (value 2)	6 W	Published source row
DC Plate-to-Grid Voltage	263 V	Published source row
DC Cathode-to-Grid Voltage	13 V	Published source row
DC Plate Current	40 mA	Published source row
DC Grid Current (Approx.)	13 mA	Published source row
Useful Power Output (Approx.)	1 W	Published source row
DC Plate-to-Grid Voltage	342 V	Published source row
DC Plate-to-Grid Voltage (value 2)	395 V	Published source row
DC Cathode-to-Grid Voltage+	42 V	Published source row
DC Cathode-to-Grid Voltage+ (value 2)	45 V	Published source row

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC Plate Current	35 mA	Published source row
DC Plate Current (value 2)	40 mA	Published source row
DC Grid Current (Approx.)	13 mA	Published source row
DC Grid Current (Approx.) (value 2)	15 mA	Published source row
Driver Power Output (Approx.)	2.4 W	Published source row
Driver Power Output (Approx.) (value 2)	3 W	Published source row
Useful Power Output (Approx.)	7.5 W	Published source row
Useful Power Output (Approx.) (value 2)	10 W	Published source row
Grid-Circuit Resistance	0.1 Mohm	Published source row
Grid-Circuit Resistance (value 2)	0.1 Mohm	Published source row
DC PLATE VOLTAGE	300 V	Published source row
DC PLATE VOLTAGE (value 2)	350 V	Published source row
DC GRID VOLTAGE	-125 V	Published source row
DC GRID VOLTAGE (value 2)	-140 V	Published source row
DC PLATE .CURRENT	33 mA	Published source row
DC PLATE .CURRENT (value 2)	45 mA	Published source row
DC GRID CURRENT	25 mA	Published source row
DC GRID CURRENT (value 2)	25 mA	Published source row
DC CATHODE CURRENT	45 mA	Published source row
DC CATHODE CURRENT (value 2)	55 mA	Published source row
PLATE INPUT	9.9 W	Published source row
PLATE INPUT (value 2)	15.9 W	Published source row
PLATE DISSIPATION	6 W	Published source row
PLATE DISSIPATION (value 2)	9.5 W	Published source row
DC Plate-to-Grid Voltage	410 V	Published source row
DC Plate-to-Grid Voltage (value 2)	472 V	Published source row

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Socket for Heater Pins Grayhill No	22	Published source row
Socket for Heater Pins Grayhill No (value 2)	-3	Published source row
Socket for Heater Pins Grayhill No (value 3)	54	Published source row
Socket for Heater Pins Grayhill No (value 4)	6325	Published source row