



ELECTRONIC TUBE REFERENCE

5893

Power - Triode Single (under 10W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Medium-mu transmitting triode designed for pulsed oscillator and RF power-amplifier service. Its published ratings emphasize high-frequency pulse operation, combining modest plate dissipation with high-voltage transmitting conditions.

GENERAL CHARACTERISTICS

BASE DESIGNATION	PENCIL	BASE PINS	9
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	4500 Ω
TRANSCONDUCTANCE	0.006 S
AMPLIFICATION FACTOR	27
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	7 W
MAXIMUM CATHODE CURRENT	35 mA
Representative electrical section from supplied RCA data sheet.	

Medium-mu triode for pulsed oscillator and RF power-amplifier service.



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
MaximumOscillatorFrequency	3300 MHz	PlatePulsed
MaximumFrequencyDoubler	1000 MHz	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Power Output	1200 W	PlatePulsedOscillator



SOURCE OPERATING CONDITIONS

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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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	6 V	—
HeaterOrFilamentCurrent	330 mA	—



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)	0.28 V	Published source row
PLATE-SUPPLY VOLTAGEb	1750 V	Published source row
GRID-BIAS VOLTAGE	150 V	Published source row
PEAK PLATE CURRENT FROM PULSE SUPPLY	3 A	Published source row
PEAK RECTIFIED GRID CURRENT	1.3 A	Published source row
DC PLATE CURRENT	0 mA	Published source row
DC PLATE CURRENT (value 2)	3 A	Published source row
DC GRID CURRENT	1.3 mA	Published source row
PLATE DISSIPATION°	6 W	Published source row
PULSE DURATION	1.5	Published source row
o	0	Published source row
Plate-Supply Voltageb	1750 V	Published source row
Grid-Bias Voltage	110 V	Published source row
Peak Plate Current from Pulse Supply	3 A	Published source row
Peak Rectified Grid Current	1.1 A	Published source row
DC Plate Current	0 mA	Published source row
DC Plate Current (value 2)	3 A	Published source row
DC Grid Current	1.1 mA	Published source row
DC PLATE VOLTAGE	320 V	Published source row
DC PLATE VOLTAGE (value 2)	400 V	Published source row

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC GRID VOLTAGE	-100 V	Published source row
DC GRID VOLTAGE (value 2)	-100 V	Published source row
DC PLATE CURRENT	35 mA	Published source row
DC PLATE CURRENT (value 2)	40 mA	Published source row
DC GRID CURRENT	15 mA	Published source row
DC GRID CURRENT (value 2)	15 mA	Published source row
PLATE INPUT	11 W	Published source row
PLATE INPUT (value 2)	16 W	Published source row
PLATE DISSIPATION°	7 W	Published source row
PLATE DISSIPATION° (value 2)	8 W	Published source row
DC Plate-to-Grid Voltage	347 V	Published source row
DC Plate-to-Grid Voltage (value 2)	401 V	Published source row
DC Plate-to-Grid Voltage (value 3)	330 V	Published source row
DC Plate-to-Grid Voltage (value 4)	383 V	Published source row
DC Cathode-torrid Voltage?	47 V	Published source row
DC Cathode-torrid Voltage? (value 2)	51 V	Published source row
DC Cathode-torrid Voltage? (value 3)	30 V	Published source row
DC Cathode-torrid Voltage? (value 4)	33 V	Published source row
DC Plate Current	33 mA	Published source row
DC Plate Current (value 2)	35 mA	Published source row
DC Plate Current (value 3)	33 mA	Published source row
DC Plate Current (value 4)	35 mA	Published source row
DC Grid Current (Approx.)	13 mA	Published source row
DC Grid Current (Approx.) (value 2)	13 mA	Published source row
DC Grid Current (Approx.) (value 3)	12 mA	Published source row
DC Grid Current (Approx.) (value 4)	13 mA	Published source row

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Driver Power Output (Approx.)	2 W	Published source row
Driver Power Output (Approx.) (value 2)	2.5 W	Published source row
Driver Power Output (Approx.) (value 3)	1.9 W	Published source row
Driver Power Output (Approx.) (value 4)	2.4 W	Published source row
Useful Power Output (Approx.)	7.5 W	Published source row
Useful Power Output (Approx.) (value 2)	8.5 W	Published source row
Useful Power Output (Approx.) (value 3)	5.5 W	Published source row
Useful Power Output (Approx.) (value 4)	6.5 W	Published source row
DC Plate-torrid Voltage	347 V	Published source row
DC Plate-torrid Voltage (value 2)	401 V	Published source row
DC Cathode-to-Grid Voltage	47 V	Published source row
DC Cathode-to-Grid Voltage (value 2)	51 V	Published source row
DC Plate Current	33 mA	Published source row
DC Plate Current (value 2)	35 mA	Published source row
DC Grid Current (Approx.)	13 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
Grid-Circuit Resistance	0 Mohm	Published source row
Grid-Circuit Resistance (value 2)	1 Mohm	Published source row
Grid-Circuit Resistance (value 3)	0.1 Mohm	Published source row
DC PLATE VOLTAGE	260 V	Published source row
DC PLATE VOLTAGE (value 2)	320 V	Published source row

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC GRID VOLTAGE	-100 V	Published source row

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Socket for Heater Pins. Grayhil l No	22	Published source row
Socket for Heater Pins. Grayhil l No (value 2)	-3	Published source row
Socket for Heater Pins. Grayhil l No (value 3)	54	Published source row
Socket for Heater Pins. Grayhil l No (value 4)	6325	Published source row
Published electrical value	1 V	Published source row
Published electrical value (value 2)	330 V	Published source row
DC GRID VOLTAGE	-100 V	Published source row
DC PLATE CURRENT	35 mA	Published source row
PLATE DISSIPATION°	7 W	Published source row
Grid-Circuit Resistance	0.5 Mohm	Published source row



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6 V	—
Heater current	280 mA	—
Plate voltage	200 V	—
Plate current	25 mA	—
Transconductance	6000 uS	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	27	—
Plate resistance	4500 ohm	—
Pulsed oscillator maximum frequency	3300 MHz	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-cathode capacitance	0.07 pF	—
Grid-cathode capacitance	2.5 pF	—
Plate-grid capacitance	1.75 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate-voltage spike	2000 V	Duration<=0.01us

TUBE TINKER

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