



ELECTRONIC TUBE REFERENCE

4624

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Power triode documented for amplifier or control service, with manufacturer operating data emphasizing useful power output rather than small-signal voltage amplification. Its available documentation does not justify a narrower specialized functional category.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	3000 Ω
TRANSCONDUCTANCE	0.0023 S
AMPLIFICATION FACTOR	12
MAXIMUM PLATE DISSIPATION	400 W
MAXIMUM CATHODE CURRENT	375 mA
<i>Published maximum ratings/general electrical characteristics promoted directly; pulse, RF, capacitance, cooling, and service-specific values retained in TUBE_SECTION_PARAMETER.</i>	

High-voltage directly heated output triode for Class-A, B, and AB service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1957 Philips Receiving and Amplifying Tubes

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

1957 PHILIPS RECEIVING AND AMPLIFYING TUBES

Section 1 · Triode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Audio output	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Class-AB operation	Published	ClassAB

SOURCE OPERATING CONDITIONS

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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
Maximum plate voltage	2200 V	PromotedValue
Maximum screen-grid voltage	400 V	PromotedValue
Maximum plate dissipation	400 W	PromotedValue
Maximum cathode/plate current	375 mA	PromotedValue
Grid No.1 to plate – published value 1	0 mA	Published datasheet value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1 to plate – published value 2	62 mA	Published datasheet value
Plate to cathode	6.2 mA	Published datasheet value
Grid No.2 to cathode	590 mA	Published datasheet value
Plate-Core Temperature	250 mA	Published datasheet value
7tie maximum rating for a signal having a minimum peak-to-average power	7 mA	Published datasheet value

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Mu / amplification factor	12	PromotedValue
Heater/filament voltage	6.3 V	Nominal operating value
Heater/filament current	3.5 A	Nominal operating value
INTEGRAL RADIATOR – published value 1	300 W	Published datasheet value
INTEGRAL RADIATOR – published value 2	890 W	Published datasheet value
MATRIX-TYPE CATHODE – published value 1	410 W	Published datasheet value
MATRIX-TYPE CATHODE – published value 2	30 W	Published datasheet value
Voltage (AC or DC)	6.3 V	Published datasheet value
Current at heater volts = 6.3 – published value 1	6.3 A	Published datasheet value
Current at heater volts = 6.3 – published value 2	3.5 A	Published datasheet value
Minimum heating time	60	Published datasheet value
plate volts = 450, grid-No.2 volts =	450 V	Published datasheet value
325 and plate amperes = 1.2 – published value 1	325 A	Published datasheet value
325 and plate amperes = 1.2 – published value 2	1.2 A	Published datasheet value
325 and plate amperes = 1.2 – published value 3	12 A	Published datasheet value
Grid No.1 to cathode	20 pF	Published datasheet value
Grid No.1 to grid No.2	19 pF	Published datasheet value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.2 to plate	2.2 pF	Published datasheet value
G2 -Grid-No. 2	2	Published datasheet value
ator core temperature to 250° C should be delivered by a	250	Published datasheet value
DC Plate Voltage	2200 V	Published datasheet value
DC Grid-No.2 Voltage	400 V	Published datasheet value
DC Plate Current	375 mA	Published datasheet value
DC Grid-No.1 Current	100 mA	Published datasheet value
Grid-No.2 Input	8 W	Published datasheet value
Plate Dissipation	400 W	Published datasheet value
For frequency of 800 Mc and Bandwidth of 8.0 Mc – published value 1	8 MHz	Published datasheet value
For frequency of 800 Mc and Bandwidth of 8.0 Mc – published value 2	8 MHz	Published datasheet value
DC Plate Voltage	2000 V	Published datasheet value
DC Grid-No.1 Voltage	-55 V	Published datasheet value
Output Circuit Efficiency	80	Published datasheet value
DC Grid-No.1 Voltage	-100 V	Published datasheet value
DC Plate Current at Peak of Envelope	450 mA	Published datasheet value
Grid-No.1 Circuit Resistance	30000 ohm	Published datasheet value
DC Grid-No.1 Voltage	-44 V	Published datasheet value
Zero-Signal DC Plate Current	100 mA	Published datasheet value
Effective RF Load Resistance	3200 ohm	Published datasheet value
DC Plate Current at Peak of Envelope	335 mA	Published datasheet value
Average DC Plate Current	250 mA	Published datasheet value
DC Grid-No.2 Current at Peak of Envelope	20 mA	Published datasheet value
Average DC Grid-No.2 Current	13 mA	Published datasheet value
DC Grid-No.1 Current	0 mA	Published datasheet value
Peak-of-Envelope Driver Power Output (Approx.)	0.3 W	Published datasheet value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Output-Circuit Efficiency (Approx.)	92	Published datasheet value
Icl Cathode-heater cylinder terminal (IDI-0.400	0.4	Published datasheet value
(d) Cathode-heater cylinder terminal IODI-0,525	525	Published datasheet value
Ib) Heater pin-0.0830 (. 123 Dia x 82° CSK. 1 – published value 1	0.083	Published datasheet value
Ib) Heater pin-0.0830 (. 123 Dia x 82° CSK. 1 – published value 2	123	Published datasheet value
Ib) Heater pin-0.0830 (. 123 Dia x 82° CSK. 1 – published value 3	82	Published datasheet value
Ib) Heater pin-0.0830 (. 123 Dia x 82° CSK. 1 – published value 4	1	Published datasheet value
INCOMING AIR TEMPERATURE- 24°C	24 degC	Published datasheet value
HEATER VOLTS=6.3	6.3 V	Published datasheet value
GRID No.2 VOLTS =400	400 V	Published datasheet value
GRID No.2 VOLTS=400	400 V	Published datasheet value



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	800 V	ClassA
Grid voltage	-90 V	ClassA
Plate current	35 mA	ClassA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Load resistance	11 kohm	ClassA
Output power	9 W	ClassA

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2.3 mA/V	—
Plate resistance	3 kohm	—

TUBE TINKER

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