

ELECTRONIC TUBE REFERENCE

4630

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Directly heated telephone-service triode for preamplifier use in professional communications equipment.

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	5500 Ω
TRANSCONDUCTANCE	0.0013 S
AMPLIFICATION FACTOR	7
Published maximum ratings/general electrical characteristics promoted directly; pulse, RF, capacitance, cooling, and service-specific values retained in TUBE_SECTION_PARAMETER.	

Telephone-service directly heated triode for preamplifier use.



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	Telephone equipment / preamplifier	—



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	17000 V	PromotedValue
Maximum screen-grid voltage	2000 V	PromotedValue
Maximum plate dissipation	7500 W	PromotedValue
Maximum cathode/plate current	5 A	PromotedValue
Terminal Temperature (All terminals)	250 mA	Published datasheet value
Temperature	250 mA	Published datasheet value

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Mu / amplification factor	6	PromotedValue
Heater/filament voltage	22 V	Nominal operating value
Heater/filament current	12.6 A	Nominal operating value
Voltage (ac or dc) – published value 1	22 V	Published datasheet value
Voltage (ac or dc) – published value 2	2 V	Published datasheet value
Current at 22 volts – published value 1	22 V	Published datasheet value
Current at 22 volts – published value 2	12.6 V	Published datasheet value
Minimum heating time	180	Published datasheet value
Mu-Factor, grid No.2 to grid No.1	6	Published datasheet value
DC Plate Voltage	176000 V	Published datasheet value
Instantaneous Peak Plate Voltage	226000 V	Published datasheet value
(Pulse duration < 0.1 s)	0.1	Pulse
No.2 Voltage	2000 V	Published datasheet value
DC Grid No.1 Voltage	-600 V	Published datasheet value
Grid No.1 Voltage	150 V	Published datasheet value
Peak Plate Current	40	Published datasheet value
DC Plate Current	5	Published datasheet value
Plate Dissipation (Average)	7500 W	Published datasheet value
6 See dimensional outline for temperature measurement points	6	Published datasheet value



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
Plate voltage	130 V	—
Plate current	8.5 mA	—
Transconductance	1.3 mA/V	—
Grid voltage	-8.4 V	—
Amplification factor	7	—
Plate resistance	5.5 kohm	—

TUBE TINKER

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and their source documents.

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