



ELECTRONIC TUBE REFERENCE

4060

Voltage - Triode (under 100V) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Very-low-current directly heated electrometer triode for electrochemical, ionization, X-ray, and low-light measurements requiring extremely small input-current detection.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	0.7 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.000028 S
AMPLIFICATION FACTOR	0.5
MAXIMUM PLATE VOLTAGE	6 V
Oscillator unit in integrated 1090-MHz assembly.	

SECTION2 Triode	
No fixed ratings recorded.	
Amplifier unit in integrated 1090-MHz assembly.	

Very-low-current directly heated electrometer triode for electrochemical, ionization, X-ray, and low-light measurements.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Philips Miniwatt Vacuum Tube Catalog

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

1938 PHILIPS MINIWATT VACUUM TUBE CATALOG

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	0.5–0.7 V	DirectlyHeated
Maximum anode voltage	4 V	—
Grid bias	-2.5 V	Electrometer

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	28 μ S	Electrometer
Amplification factor	0.5	Electrometer
First-grid current	$<10^{-9}$ A	Electrometer; OCR exponent uncertain in source scan



SOURCE OPERATING CONDITIONS

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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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	0.7 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentCurrent	300 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	4 V	Electrometer
Grid Voltage	-2.5 V	Electrometer
GridCurrentMaximum	0.000000000001 mA	Electrometer


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1963 Mullard

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1963 MULLARD

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage approximate	0.7 V	—
Filament current	600 mA	—
Grid current	0.000000000001 mA	—
Positive grid current commencement voltage	-1.3 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage operating	4 V	—
Anode voltage maximum	6 V	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Electrometer / ionization / X-ray / low-light current measurement	—

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
Heater/filament voltage	6.3 V	—
Heater/filament current	660 mA	—
Operating frequency	1090 MHz	Oscillator
Maximum DC plate voltage	1100 V	Oscillator
Peak heater-cathode voltage	60 V	Oscillator
Duty factor maximum	0.01	LongTerm
Pulse duration	0.45 us	Typical
Peak oscillator grid current	500 mA	—
Peak oscillator plate current	700 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tuning range	15 MHz	Oscillator

1971 RCA HB3 BINDER 6 OF 7

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Operating frequency	1090 MHz	Amplifier
Maximum DC plate voltage	1100 V	Amplifier
Peak heater-cathode voltage	60 V	Amplifier
Duty factor maximum	0.01	LongTerm
Pulse duration	0.45 us	Typical

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak amplifier cathode current	2 A	—
Peak amplifier plate current	1.5 A	—
Useful peak power output	500 W	1090MHz

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tuning range	15 MHz	Amplifier



SOURCE OPERATING CONDITIONS

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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
Va max	6 V	Va max. 6 V
Va = max.,	6 V	Va = max., 6 V
Heating : direct Ve	0.7 V	Heating : direct Ve = 0,7 V
Chauffage: direct Ie	300 mA	Chauffage: direct Ie = 0,3 A 1)
Vg	2.5 v	Vg = =2,5 v

TUBE TINKER

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