



ELECTRONIC TUBE REFERENCE

4067

Voltage - Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Directly heated subminiature electrometer pentode designed specifically for pH meters and other extremely high-impedance measurement circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	0.5 V / 8 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
MAXIMUM PLATE VOLTAGE	45 V
MAXIMUM SCREEN VOLTAGE	45 V
<p><i>Philips 4067 directly heated subminiature electrometer pentode for pH meters and extremely high-impedance measurement, 0.5 V, 8 mA DC filament; filament current must be adjusted to 8 mA. Manufacturer explicit maximum anode voltage 45 V and grid-2 screen voltage 45 V. Typical circuit: 12 V anode supply, screen 21 V, plate current around 0.5 μA, control grid about -1.7 ± 0.5 V, external 20 MΩ load. Very high cold control-grid insulation; guard against contamination and leakage. Apply filament voltage BEFORE anode voltage, do not remove protective glass envelope until installed, and operate only in complete darkness with light-tight screening. Solder leads at least 5 mm from seal and bend no closer than 1.5 mm.</i></p>	

Directly heated subminiature electrometer pentode intended for pH meters.



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 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	0.5 V	—
HeaterOrFilamentCurrent	8 mA	—
Grid1 Voltage	-1.7 V	Typical

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
BatteryVoltage	12 V	pHMeter
Grid2 Voltage	21 V	pHMeter
Plate Current	0.5 uA	pHMeter



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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Chauffage: direct par C.C. Ie	8 mA	Chauffage: direct par C.C. Ie = 8 mA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
The heater current should be adjusted to	8 mA	The heater current should be adjusted to 8 mA
Le courant de chauffage sera réglé a	8 mA	Le courant de chauffage sera réglé a 8 mA
Der Heizstrom muss auf	8 mA	Der Heizstrom muss auf 8 mA eingestellt werden
Vg2	21 v	Vg2 = 21 v
Ra	20 MΩ	Ra = 20 MQ
Heating : direct by D.C. V _ç	0.5 V	Heating : direct by D.C. V _ç 0,5V
Grenzdaten Va De	45 v	Grenzdaten Va De... 45 v

TUBE TINKER

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