



ELECTRONIC TUBE REFERENCE

4066

Voltage - Tetrode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Directly heated subminiature electrometer tetrode for very-low-current measurement. Extremely low filament power and high input resistance suit sensitive instrumentation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	1.25 V / 13 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
TRANSCONDUCTANCE	0.000017 S
MAXIMUM PLATE VOLTAGE	10 V
MAXIMUM CATHODE CURRENT	0.3 mA
<i>Philips 4066 directly heated 1.25 V 13 mA subminiature electrometer tetrode for ultra-low-current measurements. Manufacturer explicit maximum anode voltage 10 V and maximum cathode current 300 μA (0.0003 A), filament operation range 1.1–1.5 V. Typical operating condition V_a 4.5 V, I_a 20 μA, grid-1 current 250 μA, transconductance about 17 μA/V (0.000017 S) with an electrode-specific measurement arrangement. To avoid excessive drift energize filament before anode voltage, and keep glass envelope in protective sleeve until installed to avoid contamination; leakage-sensitive construction. Published operating points do not establish additional maximum ratings.</i>	

Directly heated subminiature electrometer tetrode for very-low-current measurement.

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 · Tetrode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	1.25 V	—
HeaterOrFilamentCurrent	13 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	4.5 V	Electrometer
Plate Current	20 uA	Electrometer
Grid1 Current	250 uA	Electrometer

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 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heating : direct by D.C. Ve	1.25 V	Heating : direct by D.C. Ve = 1,25 V
Va	4.5 v	Va = 4,5 v
Ia	20 uA	Ia = 20 uA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Vg2 = -3,2 -2,0	-4.5 v	Vg2 = -3,2 -2,0 -4,5 v
2)"Crossover point"(measured at Va	4.5 V	2)"Crossover point"(measured at Va=4,5 V, Ig1=250 uA) is
this point, Vg2 is at least	0.5 V	this point, Vg2 is at least 0,5 V less negative than
its value at §a	20 uA	its value at §a= 20 uA.
"Point de croisement" (mesurée 4 Vp	4.5 V	"Point de croisement" (mesurée 4 Vp=4,5 V,Ig1=250 pA)
étant de	0.5 V	étant de 0,5 V au moins.
"Übergangspunkt"(gemessen bei Vg	4.5 V	"Übergangspunkt"(gemessen bei Vg= 4,5 V, Ig1= 250 pA),
ndert. In diesem Punkt ist Vg2 mindestens	0.5 V	ndert. In diesem Punkt ist Vg2 mindestens 0,5 V we-
niger negatif als Vg2 bei Ig	20 uA	niger negatif als Vg2 bei Ig = 20 uA.
Ig1	250 uA	Ig1 = 250 uA
Vg1 = 3,0 2,0	4 v	Vg1 = 3,0 2,0 4,0 v
JnCrossover point"(measured at Va	4.5 V	JnCrossover point"(measured at Va=4,5 V, Ig1=250 pA) is
this point, Vgo is at least	0.5 V	this point, Vgo is at least 0,5 V less negative than
its value at Iag	20 uA	its value at Iag= 20 uA.
"Point de croisement® (mesurée & Vy	4.5 V	"Point de croisement® (mesurée & Vy=4,5 V,Ig1=250 uA)
Vg2 est moins nbative que Vgo g I5	20 uA	Vg2 est moins nbative que Vgo g I5=20 uA,la différence
"Übergangspunkt"(gemessen bei Vo	4.5 V	"Übergangspunkt"(gemessen bei Vo= 4,5 V, Igq= 250 uA)},
tindert. In diesem Punkt ist Vg2 mindestens	0.5 V	tindert. In diesem Punkt ist Vg2 mindestens 0,5 V we-
niger negatif als Vgp bei Ig	20 uA	niger negatif als Vgp bei Ig = 20 uA.
i) Vg	4.5 V	i) Vg = 4,5V H--- Iy (A)

TUBE TINKER

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