

ELECTRONIC TUBE REFERENCE

D1F

Voltage Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Pentode intended for voltage-amplifier or receiving service; available source does not clearly establish a narrower functional classification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	1.4 V / 100 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	5000000 Ω
Primary physical section.	

Pentode vacuum tube documented for receiving and amplification applications, with heater, operating-characteristic, and limiting-rating data extracted from the supplied datasheet.

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
Heater voltage	1.4 V	Nominal
Heater current	100 mA	Nominal

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage . . . Vi =	14 v	Published datasheet value
Heater current I =	1 A	Published datasheet value
Screen-grid voltage . Vg, =	100 v	Published datasheet value
Anode current . . .I _g =	3 mA	Published datasheet value
Screen-grid current . . I _g , =	1 mA	Published datasheet value
Grd bias Vg =	-15 v	Published datasheet value
Slope S =	18 mA/V	Published datasheet value
AC resistance . . .R _i =	5 MΩ	Published datasheet value
resistance R _{aeq} =	6 kΩ	Published datasheet value
ceiver Vga=	0 v	Published datasheet value
prospectus B	1 s	Published datasheet value
cation is D1	1 v	Published datasheet value
A e s . =	20 V	Published datasheet value
series resistance is	50 W	Published datasheet value
from	-1.5 V	Published datasheet value
the ratio	100 W	Published datasheet value
held constant at	100 V	Published datasheet value
grid bias from	-1.5 S	Published datasheet value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
conductance is	500 A	Published datasheet value
types provide a gain of	120 s	Published datasheet value
following conditions: HT supply =	150 V	Published datasheet value
screen-grid series-resistance =	1 MΩ	Published datasheet value
D1	1 s	Published datasheet value
Ca =	5.2 pF	Published datasheet value
Cg1r =	4.6 pF	Published datasheet value
Cgs =	8.2 pF	Published datasheet value