ELECTRONIC TUBE REFERENCE

D11F

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

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 curtent . . . . I =	1 A	Published datasheet value
Screen-grid voltage . Vg, =	100 v	Published datasheet value
Anode current . . .lIg =	3 mA	Published datasheet value
Screen-grid current . . Ig, =	1 mA	Published datasheet value
Grd bias . . . . . Vg =	-15 v	Published datasheet value
Slope . . . . . .S =	18 mA/V	Published datasheet value
AC resistance . . .Ri =	5 MΩ	Published datasheet value
resistance . . . .Raeq =	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