

ELECTRONIC TUBE REFERENCE

DF22

Voltage Pentode - Remote Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Variable-mu pentode designed for high-frequency and intermediate-frequency amplification. Philips documentation provides filament data, ratings, characteristics, capacitances, and operating conditions for controlled-gain receiver service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	OCTAL	BASE PINS	8
NOMINAL HEATER	1.4 V / 50 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	2500000 Ω
TRANSCONDUCTANCE	0.0011 S
MAXIMUM PLATE VOLTAGE	135 V
MAXIMUM SCREEN VOLTAGE	135 V
MAXIMUM PLATE DISSIPATION	0.2 W
MAXIMUM SCREEN DISSIPATION	0.1 W
MAXIMUM CATHODE CURRENT	3 mA
Variable-mu RF/IF pentode; uncontrolled characteristic promoted.	

Variable-mu pentode for H.F. and I.F. amplification. The supplied Philips sheet was read for heater/filament data, ratings, characteristics, capacitances, and operating conditions where published.

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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Output capacitance	6.8 pF	—
Input capacitance	5 pF	—
Plate-grid capacitance maximum	0.005 pF	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	120 V	—
Grid bias	-1.5 V	Uncontrolled
Plate current	1.4 mA	—
Screen current	0.3 mA	—
Transconductance	1100 uS	—
Plate resistance	2.5 Mohm	—
Screen-grid amplification factor	25	—