



ELECTRONIC TUBE REFERENCE

6CK5

Power - Pentode Single (NOT beam) (under 10W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

High-transconductance power pentode providing approximately 4.2 W single-ended Class A output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	OCTAL	BASE PINS	9
NOMINAL HEATER	6.3 V / 700 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	40000 Ω
TRANSCONDUCTANCE	0.01 S
AMPLIFICATION FACTOR	22
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	9 W
MAXIMUM CATHODE CURRENT	55 mA

Power-amplifier pentode. The supplied Philips/JETEC/RTMA sheet was read for heater data, section ratings, characteristics, operating conditions, and capacitances, with repeated identical sections compressed only where the locked workflow allows.

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	700 mA	—
Plate voltage	250 V	—
Screen voltage	250 V	—
Plate current	36 mA	—
Screen current	5.2 mA	—
Transconductance	10000 μ S	—
Plate resistance	40000 ohm	—
Screen-grid amplification factor	22	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum signal output power	4.2 W	ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	10.2 pF	—
Output capacitance	7.8 pF	—
Plate-grid capacitance maximum	1 pF	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

