



ELECTRONIC TUBE REFERENCE

6BN5

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
PENTODE

High-transconductance power pentode for Class A audio output, producing approximately 2.8 W.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9CR	BASE PINS	9
NOMINAL HEATER	6.3 V / 200 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	3200 Ω
TRANSCONDUCTANCE	0.009 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	5 W
MAXIMUM CATHODE CURRENT	60 mA
<i>Promoted from the printed maximum-rating/characteristic columns; additional operating-point data retained as section parameters.</i>	

Power-amplifier pentode for Class-A output service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

Published test conditions and operating points. Values on this page are preserved as reported by this source.

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	225 V	ClassA
Screen voltage	225 V	ClassA
Cathode resistor	360 Ω	ClassA
Plate current	26 mA	ClassA
Screen current	4.1 mA	ClassA
Power output	2.8 W	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	3200 Ω	ClassA
Transconductance	9000 μS	ClassA

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	200 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Class A plate voltage	200 V	ClassA
Class A screen voltage	200 V	ClassA
Class A plate current	22.5 mA	ClassA
Class A screen current	3.5 mA	ClassA
Class A transconductance	3200 uS	ClassA
Class A load resistance	9000 ohm	ClassA
Class A output power	2.1 W	ClassA
Class AB push-pull output power	7 W	ClassAB;PushPull;TwoTubes
Class B push-pull output power	6.5 W	ClassB;PushPull;TwoTubes

TUBE TINKER

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