



ELECTRONIC TUBE REFERENCE

4682

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

CONSOLIDATED TECHNICAL
DATA1 SECTION
CONSTRUCTION
PENTODE

Philips audio power pentode for push-pull Class AB service, with a pair delivering approximately 19 W.

GENERAL CHARACTERISTICS

BASE DESIGNATION	P35-32	BASE PINS	8
NOMINAL HEATER	4 V / 1 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
MAXIMUM PLATE VOLTAGE	375 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	9 W
MAXIMUM SCREEN DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	50 mA
<i>Promoted only from clearly identified published characteristics/limits; additional operating, capacitance, regulator, gas-tube, and push-pull data retained as section parameters.</i>	

Indirectly heated output pentode for Class-B and AB service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Philips Miniwatt Vacuum Tube Catalog

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

1938 PHILIPS MINIWATT VACUUM TUBE CATALOG

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	375 V	ClassAB;PushPull;TwoTubes;FixedBias
Screen voltage	250 V	ClassAB;PushPull;TwoTubes;FixedBias
Quiescent plate current per tube	20 mA	ClassAB;PushPull;TwoTubes;FixedBias
Full-modulation plate current per tube	45 mA	ClassAB;PushPull;TwoTubes;FixedBias
Quiescent screen current per tube	3 mA	ClassAB;PushPull;TwoTubes;FixedBias
Full-modulation screen current per tube	5.5 mA	ClassAB;PushPull;TwoTubes;FixedBias
Control-grid bias	-32 V	ClassAB;PushPull;TwoTubes;FixedBias
Optimum plate-to-plate load	9000 Ω	ClassAB;PushPull;TwoTubes;FixedBias
Power output	19 W	ClassAB;PushPull;TwoTubes;FixedBias
Total distortion	1.5 %	ClassAB;PushPull;TwoTubes;FixedBias
Grid AC voltage at full modulation	21.5 V RMS	ClassAB;PushPull;TwoTubes;FixedBias
Maximum plate dissipation per tube	9 W	ClassAB;PushPull;TwoTubes
Plate voltage	375 V	ClassAB;PushPull;TwoTubes;SelfBias
Screen voltage	250 V	ClassAB;PushPull;TwoTubes;SelfBias
Quiescent plate current per tube	24 mA	ClassAB;PushPull;TwoTubes;SelfBias
Full-modulation plate current per tube	29 mA	ClassAB;PushPull;TwoTubes;SelfBias

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Quiescent screen current per tube	3.5 mA	ClassAB;PushPull;TwoTubes;SelfBias
Full-modulation screen current per tube	4 mA	ClassAB;PushPull;TwoTubes;SelfBias
Common cathode resistor	540 Ω	ClassAB;PushPull;TwoTubes;SelfBias
Optimum plate-to-plate load	15000 Ω	ClassAB;PushPull;TwoTubes;SelfBias
Power output	14 W	ClassAB;PushPull;TwoTubes;SelfBias
Total distortion	5.2 %	ClassAB;PushPull;TwoTubes;SelfBias
Grid AC voltage at full modulation	16.5 V RMS	ClassAB;PushPull;TwoTubes;SelfBias



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1957 Philips Receiving and Amplifying Tubes

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

1957 PHILIPS RECEIVING AND AMPLIFYING TUBES

Section 1 · Pentode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Audio output	—



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-to-plate load resistance	9 k0hm	ClassB; TwoTubes
Power output	19 W	ClassB; TwoTubes
Power output	14 W	ClassAB; TwoTubes

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-grid capacitance	<1.5 pF	—

TUBE TINKER

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

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