



ELECTRONIC TUBE REFERENCE

E408N

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Philips audio power triode for Class A and push-pull Class AB service. Published operation provides about 2.6 W single-ended or roughly 7 W from a push-pull pair, with 12 W maximum plate dissipation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4 V / 1 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.0027 S
AMPLIFICATION FACTOR	38
MAXIMUM PLATE DISSIPATION	12 W
<i>Philips directly heated power triode with Class-A and Class-AB operating data.</i>	

E408N is a Triode device in the supplied Philips literature. Philips directly heated power triode with Class-A and Class-AB operating data.

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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	400 V	ClassA; OneTube
Quiescent plate current	30 mA	ClassA; OneTube
Grid bias	-36 V	ClassA; OneTube
Optimum load resistance	6000 ohm	ClassA
Power output	2.6 W	ClassA
Distortion	5 %	ClassA
Maximum anode dissipation	12 W	—
Plate voltage	400 V	ClassAB; PushPull; TwoTubes; FixedBias
Quiescent plate current per tube	20 mA	ClassAB; PushPull; TwoTubes; FixedBias
Plate current at full modulation per tube	28 mA	ClassAB; PushPull; TwoTubes; FixedBias
Grid bias	-40 V	ClassAB; PushPull; TwoTubes; FixedBias
Load resistance plate-to-plate	12000 ohm	ClassAB; PushPull; TwoTubes; FixedBias
Power output	7 W	ClassAB; PushPull; TwoTubes; FixedBias
Plate voltage	400 V	ClassAB; PushPull; TwoTubes; CathodeBias
Quiescent plate current per tube	35 mA	ClassAB; PushPull; TwoTubes; CathodeBias
Plate current at full modulation per tube	32 mA	ClassAB; PushPull; TwoTubes; CathodeBias
Common cathode resistor	600 ohm	ClassAB; PushPull; TwoTubes; CathodeBias
Load resistance plate-to-plate	10000 ohm	ClassAB; PushPull; TwoTubes; CathodeBias

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power output	7 W	ClassAB; PushPull; TwoTubes; CathodeBias

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2.7 mA/V	ClassA
Internal resistance	3000 ohm	ClassA



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1999 Philips E-Z

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

1999 PHILIPS E-Z

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Normal plate current	30 mA	Va=400V
Grid bias	-34 V	Va=400V

TUBE TINKER

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and their source documents.

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