

ELECTRONIC TUBE REFERENCE

E444

Voltage Pentode or Tetrode (under 100V) electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
DIODE-TETRODE

Early Philips binode combining diode detection with high-gain tetrode amplification for radio receiver signal processing, using a 4 V heater characteristic of prewar European equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4 V / 1.1 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode
No fixed ratings recorded.
Published target-row operating and characteristic values reviewed.

SECTION2 Tetrode	
PLATE RESISTANCE	1000 Ω
TRANSCONDUCTANCE	0.003 S
AMPLIFICATION FACTOR	1000
MAXIMUM PLATE VOLTAGE	20 V
MAXIMUM SCREEN VOLTAGE	45 V
Published target-row operating and characteristic values reviewed.	

E444 is listed in the supplied valve table as a binode diode-tetrode. Published operating and characteristic values were transcribed from its target row.



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 2 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	200 V	Published European table row

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	1000 ohm	Published European table row
Heater/filament voltage	4 V	Published European table row
Heater/filament current	1.1 A	Published European table row



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 2 · Tetrode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage	200 V	Published datasheet value
Screen-grid voltage	150 V	Published datasheet value