



ELECTRONIC TUBE REFERENCE

E452T

Voltage - Tetrode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Philips tetrode documented in contemporary valve tables. Available source material confirms tetrode construction and operating data without establishing a narrower functional role.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
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 Tetrode	
PLATE RESISTANCE	450000 Ω
TRANSCONDUCTANCE	0.0009 S
AMPLIFICATION FACTOR	900
MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM SCREEN VOLTAGE	100 V
<i>Published target-row operating and characteristic values reviewed.</i>	

E452T is listed in the supplied valve table as a 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 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	200 V	Published European table row
Screen voltage	100 V	Published European table row
Plate current	3 mA	Published European table row
Control-grid bias	2 V	Published European table row

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	450000 ohm	Published European table row
Transconductance	900 μ S	Published European table row
Heater/filament voltage	4 V	Published European table row
Heater/filament current	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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.2 current	0.7 mA	Published datasheet value
Grid No.1 voltage	-2 V	Published datasheet value

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