



ELECTRONIC TUBE REFERENCE

E447

Voltage - Pentode Remote Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Variable-mu pentode documented in Philips valve-table data. Published operating and characteristic values support controlled-gain signal amplification, although the surviving source provides limited explicit application wording.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	5
NOMINAL HEATER	4 V / 1.1 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	1000000 Ω
TRANSCONDUCTANCE	0.0023 S
MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM SCREEN VOLTAGE	100 V
Published target-row operating and characteristic values reviewed.	

E447 is listed in the supplied valve table as a variable-mu pentode. 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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	200 V	Published European table row
Screen voltage	100 V	Published European table row
Plate current	4.5 mA	Published European table row
Control-grid bias	2 V	Published European table row

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	1000000 ohm	Published European table row
Transconductance	2300 μ S	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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode current	4.5 mA	Published datasheet value
Anode current	0.01 mA	Published datasheet value
Anode voltage	200 V	Published datasheet value
Screen-grid voltage	125 V	Published datasheet value
Internal resistance	1 M.0hm	Published datasheet value
Internal resistance	10 M.0hm	Published datasheet value

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