



ELECTRONIC TUBE REFERENCE

C443N

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
PENTODE

Philips pentode variant with published operating points, ratings, and characteristics. Manufacturer data support output-stage power operation, although the surviving source provides limited application narrative.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	4 V / 250 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	25000 Ω
TRANSCONDUCTANCE	0.0015 S
AMPLIFICATION FACTOR	32
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM SCREEN VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	6 W
<i>Published operating point, characteristic values and capacitance column reviewed.</i>	

C443N is listed in the supplied valve table as a 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	300 V	Published table operating point
Plate current	20 mA	Published table operating point
Control-grid bias	42 V	Published table operating point
Screen voltage	200 V	Published table operating point
Optimum load resistance	15000 ohm	Published table operating point
Maximum plate dissipation	6 W	Published table rating

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	1500000 μ S	Published table characteristic
Plate resistance	25000 ohm	Published table characteristic
Heater/filament voltage	4 V	Published heater/filament rating
Heater/filament current	250 mA	Published heater/filament rating

TUBE TINKER

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and their source documents.

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