



ELECTRONIC TUBE REFERENCE

C243N

Voltage Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Low-voltage directly heated power pentode for battery-operated radio and audio output service, using a 2 V, 200 mA filament.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2 V / 200 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	75000 Ω
TRANSCONDUCTANCE	0.0024 S
AMPLIFICATION FACTOR	180
<i>Published operating point, characteristic values and capacitance column reviewed.</i>	

C243N is listed in the supplied valve table as a power 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	150 V	Published table operating point
Plate current	9.5 mA	Published table operating point
Control-grid bias	4.5 V	Published table operating point
Screen voltage	150 V	Published table operating point
Optimum load resistance	15000 ohm	Published table operating point
Power output	1.5 W	Published table operating point

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2400000 μ S	Published table characteristic
Plate resistance	75000 ohm	Published table characteristic
Heater/filament voltage	2 V	Published heater/filament rating
Heater/filament current	200 mA	Published heater/filament rating



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage	150 V	Published datasheet value
Screen-grid voltage	150 V	Published datasheet value
Screen-grid current	2.2 mA	Published datasheet value
Normal anode current	9.5 mA	Published datasheet value
Grid bias	-4.5 V	Published datasheet value
Output power at 5% distortion	0.44 W	ClassA; Ra=15kΩ; Va=150V
Output power at 10% distortion	0.58 W	ClassA; Ra=15kΩ; Va=150V

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum transconductance	—2.5 mA/V	Published datasheet value
Normal transconductance	2.4 mA/V	Published datasheet value
Internal resistance	75 kΩ	Published datasheet value
Amplification factor	180	Published datasheet value