

ELECTRONIC TUBE REFERENCE

AL4

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Power pentode designed for audio-output amplification. Manufacturer documentation identifies it as a dedicated low-frequency output tube for driving receiver loads.

GENERAL CHARACTERISTICS

BASE DESIGNATION	P35	BASE PINS	8
NOMINAL HEATER	4 V / 1.75 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	25000 Ω
TRANSCONDUCTANCE	0.0095 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	9 W
MAXIMUM SCREEN DISSIPATION	1.5 W
Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed when applicable.	

Power pentode for audio output amplification.

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	250 V	—
Plate current	36 mA	—
Screen voltage	250 V	—
Screen current	5 mA	—
Optimum load resistance	7000 ohm	—
Power output	4.3 W	—
Grid AC input voltage	3.6 V RMS	—
Maximum anode dissipation	9 W	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	9500 μ S	—
Plate resistance	50000 ohm	—

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 RFT Rundfunk Technik

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

1953 RFT RUNDFUNK TECHNIK

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	4 V	Published nominal value
Heater or filament current	1.75 A	Published nominal value
Transconductance	9000 μ S	Published operating characteristic

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Output power	4 W	Single-ended audio output



SOURCE DATA APPENDIX

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.

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	4 V	—
Heater current	1.75 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Electrical data reference	EL3N	SourceCrossReference