



ELECTRONIC TUBE REFERENCE

DL65

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
PENTODE

Directly heated subminiature output pentode designed for hearing aids. Its tiny filament demand and compact construction provide very-low-power audio output for wearable battery equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	Subminiature	BASE PINS	–
NOMINAL HEATER	1.25 V / 15 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	400000 Ω
TRANSCONDUCTANCE	0.00035 S
AMPLIFICATION FACTOR	8
MAXIMUM PLATE VOLTAGE	45 V
MAXIMUM SCREEN VOLTAGE	45 V
MAXIMUM PLATE DISSIPATION	0.025 W
MAXIMUM SCREEN DISSIPATION	0.006 W
MAXIMUM CATHODE CURRENT	1 mA
<i>Subminiature output pentode for hearing aids.</i>	

Directly heated subminiature output pentode for hearing aids; the supplied sheet cross-references the DL67 family.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V1

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V1

Section 1 · Pentode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control-grid capacitance	2.5 pF	—
Plate capacitance	3.7 pF	—
Grid-to-plate capacitance	—0.2 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	22.5 V	HearingAid
Screen voltage	22.5 V	HearingAid
Plate current	0.3 mA	HearingAid
Screen current	0.075 mA	HearingAid
Grid voltage	-1.4 V	HearingAid

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	350 μ S	—



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage	22.5 V	ClassA
Screen-grid voltage	22.5 V	ClassA
Anode current	0.475 mA	ClassA
Screen-grid current	0.1 mA	ClassA
Control-grid voltage	-0.2 V	ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	2.5 pF	—
Output capacitance	2.2 pF	—
Anode-grid capacitance	<0.2 pF	—