



ELECTRONIC TUBE REFERENCE

DAF41

Voltage Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

DIODE-PENTODE

Directly heated battery diode-pentode combining a detector diode with a high-resistance pentode for resistance-coupled audio voltage amplification. Its 1.4 V, 50 mA filament suits low-consumption portable receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	1.4 V / 50 mA	PARALLEL HEATER	1.4 V / 50 mA
HEATING	Direct	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	2200000 Ω
TRANSCONDUCTANCE	0.0007 S
MAXIMUM PLATE VOLTAGE	135 V
MAXIMUM SCREEN VOLTAGE	85 V
MAXIMUM PLATE DISSIPATION	0.1 W
MAXIMUM SCREEN DISSIPATION	0.02 W
<i>Promoted from clearly identified published ratings/characteristics; additional operating points, capacitances, rectifier conditions, and application-specific values are retained in TUBE_SECTION_PARAMETER.</i>	

SECTION2 Diode	
PEAK INVERSE VOLTAGE	100 V
NOMINAL OUTPUT CURRENT	200 mA
<i>Promoted from clearly identified published ratings/characteristics; additional operating points, capacitances, rectifier conditions, and application-specific values are retained in TUBE_SECTION_PARAMETER.</i>	

Directly heated diode-pentode for resistance-coupled audio amplification in battery receivers.

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
Grid capacitance	2.8 pF	Section1
Plate capacitance	3.7 pF	Section1
Grid-to-plate capacitance maximum	0.0065 pF	Section1
Diode capacitance	2.1 pF	Section1

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Supply voltage	67.5 V	AudioAmplifier
Plate load	0.22 MΩ	AudioAmplifier
Screen resistor	0.82 MΩ	AudioAmplifier
Plate current	0.17 mA	AudioAmplifier
Screen current	0.04 mA	AudioAmplifier
Required input voltage	60 mV	AudioAmplifier
Supply voltage	150 V	AudioAmplifier
Plate current	0.24 mA	AudioAmplifier

1963 PHILIPS ELECTRON TUBES HANDBOOK V1

Section 2 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage maximum	100 V	DetectorDiode
Average diode current maximum	0.2 mA	DetectorDiode

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak diode current maximum	1.2 mA	DetectorDiode



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.

1999 PHILIPS 0-D
Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode voltage	135 V	—
Maximum screen voltage	85 V	—