



ELECTRONIC TUBE REFERENCE

DAF40

Voltage - Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

DIODE-PENTODE

Directly heated battery diode-pentode for RF or IF amplification together with signal detection. Its exceptionally economical 1.4 V, 25 mA filament and high-resistance pentode make it particularly suitable for portable receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	1.4 V / 25 mA	PARALLEL HEATER	1.4 V / 25 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	0.2 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 RF or IF 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
Plate voltage	67.5 V	RFIFAmplifier
Screen voltage	67.5 V	RFIFAmplifier
Plate current	0.85 mA	RFIFAmplifier
Screen current	0.2 mA	RFIFAmplifier
Plate voltage	90 V	RFIFAmplifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	700 μ S	Section1
Plate resistance	1.6 M Ω	67.5VPlate
Plate resistance	2.2 M Ω	90VPlate

1963 PHILIPS ELECTRON TUBES HANDBOOK V1

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Internal resistance	1.7 MΩ	Va=67.5V

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

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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