



ELECTRONIC TUBE REFERENCE

DF62

Voltage - Pentode or Tetrode (under 100V) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Mullard subminiature sharp-cutoff RF pentode for battery equipment and frequency-changer service. Manufacturer data document both RF amplification and conversion operation from low-voltage battery supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	SUBMINIATURE	BASE PINS	8
NOMINAL HEATER	1.25 V / 100 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	500000 Ω
TRANSCONDUCTANCE	0.0026 S
MAXIMUM PLATE VOLTAGE	90 V
MAXIMUM SCREEN VOLTAGE	90 V
MAXIMUM PLATE DISSIPATION	0.55 W
MAXIMUM SCREEN DISSIPATION	0.2 W
MAXIMUM CATHODE CURRENT	6.5 mA
<i>Fully shielded directly heated sharp-cutoff RF pentode for battery-operated equipment; supplied sheet explicitly co-designates DF62/1AD4.</i>	

The Mullard DF62 is a subminiature sharp-cutoff RF pentode for battery equipment and frequency-changer service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Mullard Receiving Tubes

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

1958 MULLARD RECEIVING TUBES

Section 1 · Pentode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cutoff characteristic	Sharp cutoff	—

APPLICATION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	RF amplifier	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Mullard

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

1963 MULLARD

Section 1 · Pentode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	1.25 V	DCOnly
Filament Current	100 mA	DCOnly
Plate Voltage	45 V	—
Screen Voltage	45 V	—
Plate Current	3 mA	—
Screen Current	0.8 mA	—
Transconductance	2000 μ S	—
Plate Resistance	500000 ohm	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	4 pF	—
Output Capacitance	4 pF	—
Plate-Grid Capacitance	0.01 pF	Maximum

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Conversion Transconductance	600 uS	FrequencyChanger; Va=67.5V
Maximum Plate Voltage	90 V	—
Maximum Screen Voltage	90 V	—
Maximum Cathode Current	6.5 mA	—



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-to-plate capacitance	—0.01 pF	—
Plate capacitance	4 pF	—
Control-grid capacitance	4 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	90 V	RF amplifier
Screen voltage	90 V	RF amplifier
Plate current	5.7 mA	RF amplifier
Screen current	1.5 mA	RF amplifier

Characteristic		
Parameter	Published Value	Condition / Note
Transconductance	2600 μ S	—
Plate resistance	0.5 Mohm	—
Cutoff grid voltage	-7 V	S=10 μ A/V



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

Capacitance		
Parameter	Published Value	Condition / Note
Plate-grid capacitance maximum	0.01 pF	—
Input capacitance	4 pF	—

Characteristics		
Parameter	Published Value	Condition / Note
Plate voltage	45 V	—
Screen voltage	45 V	—
Plate current	3.3 mA	—
Screen current	0.9 mA	—
Transconductance	2200 μ S	—
Plate resistance	0.4 Mohm	—
Screen-grid amplification factor	17.5	—

TUBE TINKER

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and their source documents.

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