



ELECTRONIC TUBE REFERENCE

EF41

Voltage - Pentode Remote Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Variable-mu voltage-amplifier pentode designed for RF and IF stages with automatic gain control. Its extended characteristic provides controlled receiver gain while maintaining useful high-frequency amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	RIMLOCK	BASE PINS	8
NOMINAL HEATER	6.3 V / 200 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	2000000 Ω
TRANSCONDUCTANCE	0.0022 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	125 V
MAXIMUM PLATE DISSIPATION	1 W
MAXIMUM SCREEN DISSIPATION	0.4 W
MAXIMUM CATHODE CURRENT	15 mA
<i>Published ratings/characteristics promoted from the approved source.</i>	

Variable-mu voltage-amplifier pentode for RF and IF stages with automatic gain control.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1951 Mullard Valve and Service Manual

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

1951 MULLARD VALVE AND SERVICE MANUAL

Section 1 · Pentode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cutoff characteristic	Variable-mu	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 La Radiotechnique

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

1953 LA RADIOTECHNIQUE

Section 1 · Pentode

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	200 mA	Nominal
Maximum Plate Voltage	300 V	—
Maximum Screen Voltage	250 V	—
Maximum Plate Dissipation	1 W	—

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2200 μ S	Typical
Amplification Factor	4400	Typical

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	2000000 ohm	Typical


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1958 Brimar Radio Valve No 7

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

1958 BRIMAR RADIO VALVE NO 7

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	200 mA	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V1a

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V1A

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published heater rating
Heater current	200 mA	Published heater rating

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	RForIFAmplifier
Grid bias	-2.5 V	RForIFAmplifier

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	6 mA	RForIFAmplifier
Maximum plate voltage	300 V	Published limit
Maximum plate dissipation	2 W	Published limit
Maximum screen voltage	300 V	Published limit



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1967 Mullard Receiving Tubes for Maintenance

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1967 MULLARD RECEIVING TUBES FOR MAINTENANCE

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	RForIFAmplifier
Screen-grid resistor	90 kΩ	RForIFAmplifier
Cathode resistor	325 Ω	RForIFAmplifier
Control-grid voltage	-2.5 V	RForIFAmplifier
Plate current	6 mA	RForIFAmplifier
Screen-grid current	1.7 mA	RForIFAmplifier
Transconductance	2.2 mA/V	RForIFAmplifier
Maximum plate voltage	300 V	—
Maximum plate dissipation	2 W	—
Maximum screen-grid voltage	125 V	Ia=6mA
Maximum screen-grid dissipation	0.3 W	—
Maximum cathode current	10 mA	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	4.7 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Output capacitance	8 pF	—



SOURCE DATA APPENDIX

1968 Mazda Belvu

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1968 MAZDA BELVU

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	200 mA	Nominal
Maximum Plate Voltage	300 V	—
Maximum Screen Voltage	250 V	—
Maximum Plate Dissipation	1 W	—
Maximum Screen Dissipation	0.4 W	—
Maximum Cathode Current	15 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2200 μS	Typical
Amplification Factor	4400	Typical
Plate Resistance	2000000 ohm	Typical



SOURCE DATA APPENDIX

1999 Philips E-Z

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

1999 PHILIPS E-Z

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	200 mA	—
Typical plate voltage	250 V	Uncontrolled
Typical screen voltage	100 V	Uncontrolled
Typical plate current	6 mA	Uncontrolled
Transconductance	2200 μ S	Uncontrolled
Plate resistance	1.1 Mohm	Uncontrolled
Screen-grid amplification factor	18	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum no-current plate voltage	550 V	—
Maximum plate voltage	300 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate capacitance	5.9 pF	—
Grid input capacitance	5.3 pF	—
Plate-grid capacitance maximum	0.002 pF	—
Grid-heater capacitance maximum	0.05 pF	—

TUBE TINKER

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