



ELECTRONIC TUBE REFERENCE

EF92

Voltage - Pentode Remote Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Miniature variable-mu RF pentode for controlled RF and IF amplification in communications and professional receiver equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B7G	BASE PINS	7
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	900000 Ω
TRANSCONDUCTANCE	0.0045 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM SCREEN DISSIPATION	0.6 W
MAXIMUM CATHODE CURRENT	12 mA
<i>Published ratings/characteristics promoted from the approved source.</i>	

Miniature variable-mu RF pentode for controlled RF and IF amplification. Published heater, characteristics, ratings and application information were read from the supplied Mullard sheet.



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	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	HF amplification	—



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	250 V	—
Maximum Screen Voltage	250 V	—
Maximum Plate Dissipation	2.5 W	—

Characteristic		
Parameter	Published Value	Condition / Note
Transconductance	4500 μ S	Typical



[SOURCE DATA APPENDIX](#)

SOURCE OPERATING CONDITIONS

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1963 Mullard

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

1963 MULLARD

Section 1 · Pentode

Capacitance		
Parameter	Published Value	Condition / Note
Input capacitance	4.5 pF	Shielded socket
Output capacitance	7 pF	Shielded socket

Characteristic		
Parameter	Published Value	Condition / Note
Anode current	8 mA	V _a =250V; V _{g2} =150V
Screen current	2 mA	V _a =250V; V _{g2} =150V

Other		
Parameter	Published Value	Condition / Note
Maximum operating frequency	160 Mc/s	—



[SOURCE DATA APPENDIX](#)

SOURCE OPERATING CONDITIONS

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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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published heater rating
Heater current	200 mA	Published heater rating
Transconductance	2100 μ S	RForIFAmplifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	RForIFAmplifier
Screen voltage	100 V	RForIFAmplifier
Plate current	7.5 mA	RForIFAmplifier



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1967 Mullard Receiving and Amplifying Valves

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

1967 MULLARD RECEIVING AND AMPLIFYING VALVES

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
4.8	5 pF	Published in approved EF92 target datasheet entry; Section1
Cout 6.3	6.5 pF	Published in approved EF92 target datasheet entry; Section1
Ca - gl < 15 <	0.01 pF	Published in approved EF92 target datasheet entry; Section1
Cl1 - k 2.3	2.3 pF	Published in approved EF92 target datasheet entry; Section1

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
P g2 max	600 mW	Published in approved EF92 target datasheet entry; Section1
I k max	12 mA	Published in approved EF92 target datasheet entry; Section1



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Heating
Heater current	300 mA	Heating
Maximum plate voltage	300 V	Promoted published datasheet value
Maximum screen voltage	300 V	Promoted published datasheet value
Maximum screen dissipation	0.6 W	Promoted published datasheet value

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2500 μ S	Promoted published datasheet value
Heizung : indirekt durch Wechsel= Ve =	6.3 V	Published datasheet value
oder Gleichstrom; Ip =	200 mA	Published datasheet value
Vg = 250	250 v	Published datasheet value
Vg2 = 150	200 v	Published datasheet value
Vg3 = 0	0 v	Published datasheet value
s = 2,5 2,5	0.005 mA/V	Published datasheet value

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacitances - Cg1 =	4.5 pF	Capacitances
Capacités c =	6.5 pF	Capacitances
Cag1 =	0.007 pF	Capacitances

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