

ELECTRONIC TUBE REFERENCE

PC88

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Low-noise 300 mA series-heater UHF grounded-grid amplifier triode for television Bands IV and V.

GENERAL CHARACTERISTICS

BASE DESIGNATION	NOVAL	BASE PINS	7
NOMINAL HEATER	3.8 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	4800 Ω
TRANSCONDUCTANCE	0.0135 S
AMPLIFICATION FACTOR	65
MAXIMUM PLATE VOLTAGE	175 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	13 mA
Published ratings/characteristics promoted where clearly stated; repeated identical rectifier sections compressed to one section row.	

300 mA series-heater low-noise UHF grounded-grid amplifier triode for television Bands IV and V; the source refers to EC88 for remaining characteristics.



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 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	3.8 V	Published nominal value
Heater current	300 mA	Published nominal value



SOURCE OPERATING CONDITIONS

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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

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ch+k- g+ s	3.8 pF	Published in approved PC88 target datasheet entry; Section1
ca -g+s	1.7 pF	Published in approved PC88 target datasheet entry; Section1
Ca-k+h	0.055 pF	Published in approved PC88 target datasheet entry; Section1
Ca - g	1.2 pF	Published in approved PC88 target datasheet entry; Section1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
la	12.5 mA	Published in approved PC88 target datasheet entry; Section1
gm	13.5 mA	Published in approved PC88 target datasheet entry; Section1


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1968 Mazda Belvu

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

1968 MAZDA BELVU

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	3.8 V	Published nominal or stated operating value
Heater or filament current	300 mA	Published nominal or stated operating value
Transconductance	13500 μ S	Published/reference characteristic

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	2 W	Published/reference maximum rating


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1972 Philips Receiving Tubes

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

1972 PHILIPS RECEIVING TUBES

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	UHF Amplifier text	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1973 Mazda Valves Binder 2

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

1973 MAZDA VALVES BINDER 2

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	3.8 V	Published nominal value
Heater current	300 mA	Published nominal value
Transconductance	13500 μ S	Published operating characteristic

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	2 W	Published maximum rating



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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
Typical plate voltage	160 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical plate current	12.5 mA	—
Transconductance	13500 μ S	—
Amplification factor	65	—
Plate resistance	4815 ohm	—
Equivalent noise resistance	240 ohm	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-grid capacitance	1.2 pF	—
Grid-heater-cathode capacitance	3.8 pF	—
Anode-heater-cathode capacitance	0.055 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum cold plate voltage	550 V	—

TUBE TINKER

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

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