



ELECTRONIC TUBE REFERENCE

PCC88

Voltage - Dual Triode (similar high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

High-slope low-noise dual triode designed for VHF cascode RF amplifiers in television tuners, with low equivalent noise resistance for sensitive front-end reception.

GENERAL CHARACTERISTICS

BASE DESIGNATION	Noval	BASE PINS	9
NOMINAL HEATER	7.6 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.0125 S
AMPLIFICATION FACTOR	33
MAXIMUM PLATE VOLTAGE	550 V
MAXIMUM PLATE DISSIPATION	1.8 W
MAXIMUM CATHODE CURRENT	25 mA
<i>Published section ratings and characteristics promoted where applicable.</i>	

SECTION2 Triode	
<i>No fixed ratings recorded.</i>	
<i>Published section ratings and characteristics promoted where applicable.</i>	

High-slope low-noise dual triode for VHF cascode RF amplifiers in television tuners.



SOURCE OPERATING CONDITIONS

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195X Tesla

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

195X TESLA

Section 1 · Triode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	7 V	Published nominal value
Heater current	300 mA	Published nominal value



SOURCE OPERATING CONDITIONS

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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 · Triode

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	90 V	Cascode;EachSection
Control-grid voltage	-1.3 V	Cascode;EachSection
Plate current	15 mA	Cascode;EachSection

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	12500 μ S	EachSection
Amplification factor	33	EachSection
Equivalent noise resistance	300 Ω	EachSection

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-cathode capacitance	3.3 pF	InputSection
Plate-to-grid capacitance	1.4 pF	EachSection



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1972 Philips Receiving Tubes

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1972 PHILIPS RECEIVING TUBES

Section 1 · Triode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	CascodeTunerAmplifier text	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1973 Mazda Valves Binder 2

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1973 MAZDA VALVES BINDER 2

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	7.6 V	Published nominal value
Heater current	300 mA	Published nominal value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	1.8 W	Published maximum rating

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

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode current I_y	15 mA	—
Transconductance S	12.5 mA/V	—
Heater current I_ϕ	300 mA	—
Heater voltage V_s	7.6 V	—
Anode to grid $C_{a'g'}$ 1.4	1.4 pF	—
Cathode to grid + heater + screen $C_{g'g'fs}$ 6	6 pF	—
Anode to grid + heater + screen $C_{a/g'ts}$ 2.8	3.7 pF	—
Cathode to heater $C_{k'f}$ 2.7	2.7 pF	—
Anode to cathode $C_{a'k'}$ 0.18	0.16 pF	—
Anode to anode $C_{aa'}$ max. 0.045 max	0.015 pF	—
Grid to anode other unit $C_{ga'}$ max. 0.005 max	0.005 pF	—
Anode current I	15 mA	—
Grid resistor R_g max	1 M Ω	—
Cathode to heater voltage V_{kf} max	50 V	—
$V_{k'f(k'pos)}$ ~max	150 V	—
lyp.C. component max	130 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to grid C_{ag} 1.4	1.4 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to cathode + heater + screen Cg/kfs 3.3	3.3 pF	—
Anode to cathode + heater + screen Cg/kfg 1.8	2.5 pF	—
Grid to heater Cgf 0.13	0.13 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage Va, max	550 V	—
Va max	130 V	—
Anode dissipation Wy max	1.8 W	—
Cathode current Ik max	25 mA	—
Grid voltage -Vg max	50 V	—

TUBE TINKER

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

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