



ELECTRONIC TUBE REFERENCE

PCF201

Voltage - Triode Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

Triode-pentode for oscillator, separator, and variable-slope IF-amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	Decal	BASE PINS	10
NOMINAL HEATER	8.5 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	18000 Ω
TRANSCONDUCTANCE	0.0048 S
AMPLIFICATION FACTOR	17.5
MAXIMUM PLATE VOLTAGE	550 V
MAXIMUM PLATE DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	18 mA
Published ratings and characteristics promoted from the approved English source.	

SECTION2 Pentode	
PLATE RESISTANCE	400000 Ω
TRANSCONDUCTANCE	0.0126 S
AMPLIFICATION FACTOR	45
MAXIMUM PLATE VOLTAGE	550 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.1 W
MAXIMUM SCREEN DISSIPATION	0.6 W
MAXIMUM CATHODE CURRENT	20 mA
<i>Published ratings and characteristics promoted from the approved English source.</i>	

Triode-pentode for oscillator, separator, and variable-slope IF amplifier service.

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	8 V	Nominal
HeaterCurrentNominal	300 mA	Nominal
Maximum Plate Voltage	300 V	—
Maximum Plate Dissipation	1.5 W	—
Maximum Cathode Current	20 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	5000 μ S	Typical
Amplification Factor	50	Typical
Plate Resistance	18000 ohm	Typical

1968 MAZDA BELVU

Section 2 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	8 V	Nominal
HeaterCurrentNominal	300 mA	Nominal
Maximum Plate Voltage	300 V	—
Maximum Screen Voltage	300 V	—
Maximum Plate Dissipation	2.5 W	—
Maximum Screen Dissipation	0.6 W	—
Maximum Cathode Current	25 mA	—

Characteristic		
Parameter	Published Value	Condition / Note
Transconductance	4500 μS	Typical
Plate Resistance	400000 ohm	Typical



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

Section 1 · Triode

Application		
Parameter	Published Value	Condition / Note
Application	LineBlockingOscillator_Multivibrator_Sync_AGC text	—

1972 PHILIPS RECEIVING TUBES

Section 2 · Pentode

Application		
Parameter	Published Value	Condition / Note
Application	RemoteCutoffVideoIFAmplifier text	—



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

Section 1 · Triode

Characteristic		
Parameter	Published Value	Condition / Note
Anode current I,	14 mA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance S	4.8 mA/V	—
Cathode peak current I _{kp} max	50 mA	—
Heater current I _t	300 mA	—
Heater voltage V _i	8.5 V	—
Anode to all except grid (a _{lg})	3 pF	—
Grid to all except anode C _{g(a)}	2.1 pF	—
Anode to grid C _{ag}	2 pF	—
Pentode anode to triode anode C _{aPaT} max	0.015 pF	—
Pentode grid No.1 to triode anode C _{gPaT} max	0.0012 pF	—
Pentode grid No.1 to triode grid C _{g1PgT} max	0.0015 pF	—
Anode current I _a]	14 mA	—
Transconductance	4.8 mA/V	—
Anode voltage V _a	30 V	—
Peak cathode current I _{kp}	40 mA	—
Peak anode current I _{ap}	25 mA	—
Anode supply voltage V _{ba} 130to	150 V	—
Anode current 1 min	2 mA	—
Anode voltage V _{ao} max	550 V	—
V _g max	250 V	—
Anode dissipation W _y max	1.5 W	—
Grid resistor R _g max	1 MΩ	—
Cathode current I _y max. I	8 mA	—
Cathode to heater voltage V _{if} max	150 V	—
R _{gp} = 18 22 27 90}	1 μA	—
R _g ,= 18 22	27 kΩ	—
W =210 230	250 V	—
0 W _y [1]	15 W	—
0 W _y [2]	-2 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
20 I A	0 V	—
/ y, L	~12 V	—
Yy Leort r - - A	1 V	—
jfl} pd A	4 A	—

1999 PHILIPS E-Z

Section 2 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode current I,	13 mA	—
Transconductance S	12.6 mA/V	—
Ce182	1.7 pF	—
Grid No.2 current Ig2	5.3 mA	—
Grid No.2 current Ig2 5.4 5.4	5.2 mA	—
Transconductance S 12.6 12.6	12.6 mA/V	—
Grid No.1 voltage at 0.1 S Vgl -5.1 -5.4	-5.7 V	—
Grid No.1 voltage at 0.01 S Vgl -19 -20.5	22 V	—
Grid No.1 input resistance at	40 MΩ	—
Grid No.2 dissipation Wg2 max	0.7 W	—
Grid No.1 resistor Rgl max	1 MΩ	—
Cathode current I max	20 mA	—
Cathode to heater voltage Vif max	150 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to all except grid No.1 Ca(gl)	3.3 pF	—
Grid No.1 to all except anode Cgl(a)	6 pF	—
Grid No.1 to cathode Ckg	3.7 pF	—
Cagl	0.0056 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode resistor R, 3.9 5.6	6.8 k Ω	—
Anode current Ia 13.2 13.2	12.8 mA	—
Anode voltage Vao max	550 V	—
vV, max	250 V	—
Anode dissipation Wa max	2.1 W	—
Grid No.2 voltage VgZ0 max	550 V	—
Vgz max.,	250 V	—

TUBE TINKER

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