

Triode-pentode for television pulse processing and fixed-slope IF amplification.

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	0.0052 S
AMPLIFICATION FACTOR	57
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	300000 Ω
TRANSCONDUCTANCE	0.014 S
AMPLIFICATION FACTOR	53
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 television pulse processing and fixed-slope IF amplification.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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	5500 μ S	Typical
Amplification Factor	55	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	30 mA	—

Characteristic		
Parameter	Published Value	Condition / Note
Transconductance	6000 μ S	Typical
Plate Resistance	300000 ohm	Typical


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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	Limiter_NoiseDetector_AGC_Sync_Pulse text	—

1972 PHILIPS RECEIVING TUBES

Section 2 · Pentode

Application		
Parameter	Published Value	Condition / Note
Application	SoundIF_VideoIFAmplifier text	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

Section 1 · Triode

Characteristics		
Parameter	Published Value	Condition / Note
Heater voltage	8.5 V	Published nominal value

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	1.5 W	Published maximum rating
Maximum peak triode anode voltage	600 V	Pulse duration <=18% of a cycle, max 18 us

1973 MAZDA VALVES BINDER 2

Section 2 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	8.5 V	Published nominal value
Heater current	300 mA	Published nominal value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	2.1 W	Published maximum rating



TUBE TINKER
ELECTRON TUBE DATABASE

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 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode current I _y	8.5 mA	—
Transconductance S	5.2 mA	—
Heater current I _f	300 mA	—
Heater voltage A	8.5 V	—
Grid voltage V _g	-1 V	—
Anode current I _a	8.5 mA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance S	5.2 mA/V	—
Anode supply voltage Vb 130 to	150 V	—
Anode resistor Ry	33 kΩ	—
Grid current Ig	1 μA	—
Anode current Iy min	2 mA	—
Peak anode voltage (I [1])	< 0.1 mA	—
Peak anode voltage (I [2])	600 V	—
Anode voltage Vao max	550 V	—
vV, max	250 V	—
Anode dissipation W, max	1.5 W	—
Cathode current I max	18 mA	—
Grid resistor Rg max	1 MΩ	—
cathode negative with respect to heater Vi max	150 V	—
cathode positive with respect to heater Vis max	200 V	—
Vo3	0 V	—
Wp2 =a	75 W	—
Y =ovI1{-osv L Ii	-1 V	—
3i	5 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to all except anode Cg(a)	2.1 pF	—
Anode to all except grid Ca(g)	3 pF	—
Anode to grid Cag	2.2 pF	—

1999 PHILIPS E-Z

Section 2 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode current L	13 mA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance S	14 mA/V	—
Cagl max	0.008 pF	—
Crid No.1 to grid No.2 Cglgz	1.7 pF	—
Grid No. 1 to cathode Cglk	3.7 pF	—
Pentode anode to triode anode CapP-aT max	0.015 pF	—
Pentode grid No.1 to triode anode CglP-aT max	0.0012 pF	—
Pentode grid No.1 to triode grid Cglp_g"[' max	0.0015 pF	—
Anode voltage Va	160 V	—
Grid No.2 voltage Vgz	135 V	—
Anode current Iy	13 mA	—
Grid No.2 current Ig2	5.3 mA	—
Input resistance at	40 MHz	—
Grid No.2 voltage Vg20 max	550 V	—
Vg2 max	250 V	—
Grid No.2 dissipation Wg2 max	0.75 W	—
Cathode to heater voltage Vi max	150 V	—

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Supply voltage Vp 210	230 V	—
Anode current Iy 13.0	12.5 mA	—
Grid No.2 current Igz 5.3	5.1 mA	—
Transconductance S 14	14 mA/V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage V_{ao} max	550 V	—
V_a max	250 V	—
Anode dissipation W , max	2.1 W	—
Cathode current I_x max	20 mA	—