



ELECTRONIC TUBE REFERENCE

EFL200

Voltage - Dual Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-PENTODE

Dual pentode designed for television video-frequency amplification and sync-separator service, integrating wideband video gain and pulse separation in one envelope.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	10
NOMINAL HEATER	6.3 V / 810 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	100000 Ω
TRANSCONDUCTANCE	0.018 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	5 W
MAXIMUM SCREEN DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	60 mA
<i>Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed when applicable.</i>	

SECTION2 Pentode	
PLATE RESISTANCE	500000 Ω
TRANSCONDUCTANCE	0.0055 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	25 mA
<i>Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed when applicable.</i>	

Dual pentode for television video-frequency amplification and sync-separator 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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	850 mA	Nominal
Maximum Plate Voltage	250 V	—
Maximum Screen Voltage	250 V	—
Maximum Plate Dissipation	5 W	—
Maximum Screen Dissipation	1.5 W	—
Maximum Cathode Current	60 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	18000 μ S	Typical
Plate Resistance	100000 ohm	Typical

1968 MAZDA BELVU

Section 2 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	850 mA	Nominal
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	25 mA	—

Characteristic		
Parameter	Published Value	Condition / Note
Transconductance	5500 μS	Typical
Plate Resistance	500000 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 · Pentode

Characteristics		
Parameter	Published Value	Condition / Note
Heater voltage	6.3 V	Published nominal value
Heater current	810 mA	Published nominal value

1972 PHILIPS RECEIVING TUBES

Section 2 · Pentode

Characteristics		
Parameter	Published Value	Condition / Note
Heater voltage	6.3 V	Published nominal value
Heater current	810 mA	Published nominal value



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1975 RCA RC30

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

1975 RCA RC30

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
For cathode-bias operation	0.5 MΩ	Published in approved EFL200 target datasheet entry; Section1
Heater Voltage 6.3	16.5 V	Published in approved EFL200 target datasheet entry; Section1
Heater Current 0.8	300 mA	Published in approved EFL200 target datasheet entry; Section1
Peak Heater-Cathode Voltage ±200	200 V	Published in approved EFL200 target datasheet entry; Section1
Grid-No.2 Voltage 250	250 V	Published in approved EFL200 target datasheet entry; Section1
Cathode Current 60	15 mA	Published in approved EFL200 target datasheet entry; Section1
Plate Dissipation 5	1.5 W	Published in approved EFL200 target datasheet entry; Section1
Plate Voltage 170	150 V	Published in approved EFL200 target datasheet entry; Section1
Grid-No.2 Voltage 170	150 V	Published in approved EFL200 target datasheet entry; Section1
Internal Resistance 40	160 kΩ	Published in approved EFL200 target datasheet entry; Section1
Transconductance 21000	8500 μS	Published in approved EFL200 target datasheet entry; Section1
Grid-No. 1-Circuit Resistance 1	1 MΩ	Published in approved EFL200 target datasheet entry; Section1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate to All Other Elements (except grid No.1)	7 pF	Published in approved EFL200 target datasheet entry; Section1
Grid No.1 to All Other Elements (except plate)	12 pF	Published in approved EFL200 target datasheet entry; Section1
Plate to Grid No.1	95 pF	Published in approved EFL200 target datasheet entry; Section1
Grid No.1 to All Other Elements (except plate)	10 pF	Published in approved EFL200 target datasheet entry; Section1
Plate to Grid No.1	140 pF	Published in approved EFL200 target datasheet entry; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1 to Heater <	100 pF	Published in approved EFL200 target datasheet entry; Section1
Plate to Plate <	150 pF	Published in approved EFL200 target datasheet entry; Section1
Grid to Grid <	10 pF	Published in approved EFL200 target datasheet entry; Section1
Plate (Unit No.1) to Grid No.1 (Unit No.2) <	100 pF	Published in approved EFL200 target datasheet entry; Section1
Plate (Unit No.2) to Grid No.1 (Unit No.2) <	5 pF	Published in approved EFL200 target datasheet entry; Section1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current 30	10 mA	Published in approved EFL200 target datasheet entry; Section1

1975 RCA RC30

Section 2 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
For cathode-bias operation	0.5 MΩ	Published in approved EFL200 target datasheet entry; Section2
Heater Voltage 6.3	16.5 V	Published in approved EFL200 target datasheet entry; Section2
Heater Current 0.8	300 mA	Published in approved EFL200 target datasheet entry; Section2
Peak Heater-Cathode Voltage ±200	200 V	Published in approved EFL200 target datasheet entry; Section2
Grid-No.2 Voltage 250	250 V	Published in approved EFL200 target datasheet entry; Section2
Cathode Current 60	15 mA	Published in approved EFL200 target datasheet entry; Section2
Plate Dissipation 5	1.5 W	Published in approved EFL200 target datasheet entry; Section2
Plate Voltage 170	150 V	Published in approved EFL200 target datasheet entry; Section2
Grid-No.2 Voltage 170	150 V	Published in approved EFL200 target datasheet entry; Section2
Internal Resistance 40	160 kΩ	Published in approved EFL200 target datasheet entry; Section2

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance 21000	8500 μS	Published in approved EFL200 target datasheet entry; Section2
Grid-No. 1-Circuit Resistance 1	1 M Ω	Published in approved EFL200 target datasheet entry; Section2

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate to All Other Elements (except grid No.1)	7 pF	Published in approved EFL200 target datasheet entry; Section2
Grid No.1 to All Other Elements (except plate)	12 pF	Published in approved EFL200 target datasheet entry; Section2
Plate to Grid No.1	95 pF	Published in approved EFL200 target datasheet entry; Section2
Grid No.1 to All Other Elements (except plate)	10 pF	Published in approved EFL200 target datasheet entry; Section2
Plate to Grid No.1	140 pF	Published in approved EFL200 target datasheet entry; Section2
Grid No.1 to Heater <	100 pF	Published in approved EFL200 target datasheet entry; Section2
Plate to Plate <	150 pF	Published in approved EFL200 target datasheet entry; Section2
Grid to Grid <	10 pF	Published in approved EFL200 target datasheet entry; Section2
Plate (Unit No.1) to Grid No.1 (Unit No.2) <	100 pF	Published in approved EFL200 target datasheet entry; Section2
Plate (Unit No.2) to Grid No.1 (Unit No.2) <	5 pF	Published in approved EFL200 target datasheet entry; Section2

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current 30	10 mA	Published in approved EFL200 target datasheet entry; Section2



SOURCE DATA APPENDIX

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	810 mA	Heating

TUBE TINKER

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

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