



ELECTRONIC TUBE REFERENCE

EL95

Power - Pentode Single (NOT beam) (under 10W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
PENTODE

Output pentode designed for car-radio and audio service, with pairs of heaters usable in series from a 12 V battery. Its compact power stage suits mobile audio equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	6.3 V / 200 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	50000 Ω
TRANSCONDUCTANCE	0.005 S
AMPLIFICATION FACTOR	17
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	6 W
<i>Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed when applicable.</i>	

EL95 is a Pentode device in the supplied Philips literature. Output pentode for car-radio and audio service; two heaters may be used in series from a 12 V battery.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V1a

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V1A

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	—
Screen voltage	250 V	—
Grid voltage	-9 V	—
Plate current	24 mA	—
Screen current	4.5 mA	—
Transconductance	5000 uS	—
Plate resistance	50 kOhm	—
Amplification factor grid2/grid1	17	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	—0.4 pF	Maximum
Plate capacitance	3.5 pF	—
Grid capacitance	5.3 pF	—
Grid-to-heater capacitance	—0.2 pF	Maximum

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	200 V	ClassA
Cathode resistor	230 ohm	ClassA; PlateVoltage=200V
Load resistance	8 kOhm	ClassA; PlateVoltage=200V
Power output	2.3 W	ClassA; PlateVoltage=200V

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA
Cathode resistor	320 ohm	ClassA; PlateVoltage=250V
Load resistance	10 kOhm	ClassA; PlateVoltage=250V
Power output	3 W	ClassA; PlateVoltage=250V
Power output	7 W	ClassAB; PushPull; TwoTubes; PlateVoltage=250V


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	200 mA	Published nominal value


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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum cathode-heater voltage	100 V	—

TUBE TINKER

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and their source documents.

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