

ELECTRONIC TUBE REFERENCE

EL11

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
PENTODE

Power/output pentode designed for audio-frequency power amplification in single-ended or push-pull output stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 900 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	30000 Ω
TRANSCONDUCTANCE	0.009 S
MAXIMUM PLATE VOLTAGE	425 V
MAXIMUM SCREEN VOLTAGE	425 V
MAXIMUM PLATE DISSIPATION	18 W
MAXIMUM SCREEN DISSIPATION	2.8 W
MAXIMUM CATHODE CURRENT	100 mA
Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed where applicable.	

Audio power output pentode for class-A and push-pull amplifier service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 RFT Rundfunk Technik

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

1953 RFT RUNDFUNK TECHNIK

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	900 mA	Nominal
Maximum Plate Voltage	425 V	—
Maximum Screen Voltage	425 V	—
Maximum Plate Dissipation	18 W	—
Maximum Screen Dissipation	2.8 W	—
Maximum Cathode Current	100 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	11000 μ S	Typical
Plate Resistance	30000 ohm	Typical



SOURCE OPERATING CONDITIONS

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1959 Telefunken

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

1959 TELEFUNKEN

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen-grid voltage	250 V	ClassA
Control-grid voltage	-6 V	ClassA
Plate current	36 mA	ClassA
Screen-grid current	4 mA	ClassA
Cathode resistor	150 0hm	ClassA
Load resistance	7000 0hm	ClassA
Output power	4.5 W	ClassA
Plate cold voltage	550 V	—
Screen-grid cold voltage	550 V	—
Triode-connection output power	1.2 W	TriodeConnection;ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.8 pF	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Triode-connection transconductance	8000 uS	TriodeConnection;Va=250V
Triode-connection plate resistance	3500 0hm	TriodeConnection;Va=250V


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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacities Cagl	< 0.8 pF	—
Wo 0	8.2 W	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Va	250 V	ClassA
Va2	250 V	ClassA
Vg1	-6 V	ClassA
Ig2 = 4 mh	9 mA/V	ClassA
Va	250 v	ClassA
Vg2	250 v	ClassA
Ia = 2x24	2x28.5 mA	ClassA
ig2 = 2x2,8	2x44.6 mA	ClassA
Va, =max [1]	550 V	—
Va, =max [2]	0 V	—
Va, =max [3]	1.2 W	—
va =max [1]	250 V	—
va =max [2]	2.5 W	—
VWa =max [1]	9 W	—
VWa =max [2]	0.3 pA	—
VWa =max [3]	-1.3 V	—
Vg2 =max	275 V	—
Ik =pmax [1]	55 mA	—
Ik =pmax [2]	50 V	—

TUBE TINKER

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and their source documents.

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