



ELECTRONIC TUBE REFERENCE

ECL11

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

Combination valve incorporating a power-output pentode with diode or triode sections for audio-frequency amplification, detection, or driver service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.002 S
AMPLIFICATION FACTOR	66
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	0.6 W
MAXIMUM CATHODE CURRENT	15 mA
Published ratings and characteristics promoted from the approved German source.	

SECTION2 Pentode	
PLATE RESISTANCE	25000 Ω
TRANSCONDUCTANCE	0.009 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	275 V
MAXIMUM PLATE DISSIPATION	9 W
MAXIMUM SCREEN DISSIPATION	1.3 W
MAXIMUM CATHODE CURRENT	60 mA
<i>Published ratings and characteristics promoted from the approved German source.</i>	

Triode and output tetrode combination for audio amplification.

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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	1 A	Nominal
Maximum Plate Voltage	300 V	—
Maximum Plate Dissipation	1.5 W	—
Maximum Cathode Current	15 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	20	Typical

1953 RFT RUNDFUNK TECHNIK

Section 2 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	1 A	Nominal
Maximum Plate Voltage	250 V	—
Maximum Screen Voltage	275 V	—
Maximum Plate Dissipation	8 W	—
Maximum Screen Dissipation	1.3 W	—
Maximum Cathode Current	60 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	9000 μ S	Typical

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	25000 ohm	Typical


SOURCE DATA APPENDIX

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 2 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Audio power output	4 W	—


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
Chauffage indir., CA ou CC, alimentation en Vf	6.3 V	Published datasheet value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Va	250 V	Published datasheet value
Vg	-2.5 V	Published datasheet value
Ia	2 mA	Published datasheet value
' S	2 mA/V	Published datasheet value
Vgl	250 V	Published datasheet value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Vg1	-6 V	Published datasheet value
I _■	36 mA	Published datasheet value
Ig2	4 mA	Published datasheet value
S	9 mA/V	Published datasheet value
Wo	3.8 W	Published datasheet value
Vieff 4i	2 V	Published datasheet value
Vieff (Wo	50 mW	Published datasheet value
Vieff (Wo = 50 mW)	0.4 V	Published datasheet value
Vao max	550 V	Published datasheet value
Va max	300 V	Published datasheet value
We max	0.3 W	Published datasheet value
Vg (Ig = +	0.3 μA	Published datasheet value
Vg (Ig = +0,3 μA) max	-1.3 V	Published datasheet value
Vs max	250 V	Published datasheet value
We max	9 W	Published datasheet value
Vg2o max	550 V	Published datasheet value
Vg	2 ma	Published datasheet value
Vg2 max	275 V	Published datasheet value
Wg2 (Vi	0 V	Published datasheet value
Wg2 (Vi = 0 V) max	1.2 W	Published datasheet value
Vg1 (Ig1 +0,3 FA) max	-1.3 V	Published datasheet value
Vfk max	50 V	Published datasheet value
der Röhre ECL 11 mehr als	50 %	Published datasheet value
rant cathodique du tube ECL 11 doit etre plus de	50 %	Published datasheet value
Va= ,	250 V	Published datasheet value
Published value	20 v	Published datasheet value
i~U IlIi11411R	1 W	Published datasheet value