



ELECTRONIC TUBE REFERENCE

UCL11

Power - Tetrode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TETRODE-TRIODE

Combination high-gain triode and power-output tetrode for audio-frequency equipment. The triode supplies voltage amplification while the larger tetrode section provides roughly 4 W Class A loudspeaker output, integrating successive audio stages in one envelope.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	62 V / 100 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.0016 S
AMPLIFICATION FACTOR	66
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	0.6 W
Triode section.	

SECTION2 Tetrode	
PLATE RESISTANCE	18000 Ω
TRANSCONDUCTANCE	0.009 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	9 W
MAXIMUM SCREEN DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	75 mA
<i>Output tetrode section.</i>	

The UCL11 combines a small-signal triode with a power output tetrode in one envelope. Its ratings and operating data support voltage amplification followed by a several-watt audio output stage.



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 2 · Tetrode

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power Output	4 W	ClassA;OneTube;Plate 200 V;Screen 200 V



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1957 Philips Receiving and Amplifying Tubes

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

1957 PHILIPS RECEIVING AND AMPLIFYING TUBES

Section 2 · Tetrode

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Audio output stage	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power Output	4 W	Representative published ClassA point



1959 Telefunken

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

1959 TELEFUNKEN

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	200 V	Section1
Grid bias	-2 V	Section1
Plate current	2.5 mA	Section1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	5.3 pF	Section1
Grid-plate capacitance	1.5 pF	Section1

1959 TELEFUNKEN

Section 2 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	200 V	Section2
Screen voltage	200 V	Section2
Plate current	40 mA	Section2
Output power	4.2 W	Section2;Approximate
Maximum screen dissipation under drive	3 W	Section2

TUBE TINKER

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