



ELECTRONIC TUBE REFERENCE

VCL11

Voltage - Triode Tetrode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TETRODE-TRIODE

Economy-receiver triode plus power-output tetrode developed for the DKE; the tetrode provides about 1.2 watts output with 4-watt plate dissipation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	90 V / 50 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.0024 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	0.8 W
Triode measured at 100 V; operating load data also published.	

SECTION2 Tetrode	
PLATE RESISTANCE	70000 Ω
TRANSCONDUCTANCE	0.005 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	4 W
MAXIMUM SCREEN DISSIPATION	0.5 W
MAXIMUM CATHODE CURRENT	25 mA
<i>Output tetrode section; representative 200 V values used for promoted characteristics.</i>	

The VCL11 combines a voltage-amplifier triode with a power tetrode output section. Its low heater current and published low-power operating points were tailored to the DKE economy receiver.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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	100 V	Section1

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Triode transconductance at 100 V	2.4 mA/V	Section1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	4.2 pF	Section1
Grid-plate capacitance	<3.5 pF	Section1

1959 TELEFUNKEN

Section 2 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	200 V	Section2
Screen voltage	200 V	Section2
Grid bias	-4.5 V	Section2
Plate current	12 mA	Section2
Screen current	1.2 mA	Section2
Output power	1.2 W	Section2;Distortion=10%
Load resistance	17000 Ohm	Section2

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

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