



ELECTRONIC TUBE REFERENCE

CK1

Voltage - Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

OCTODE

Indirectly heated octode frequency changer for AC/DC superheterodyne receivers. It combines oscillator and controllable mixer functions in one multi-grid valve designed for series-string operation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	13 V / 200 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Octode	
PLATE RESISTANCE	1500000 Ω
TRANSCONDUCTANCE	0.0006 S
MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM SCREEN VOLTAGE	90 V
MAXIMUM PLATE DISSIPATION	0.5 W
MAXIMUM SCREEN DISSIPATION	0.3 W
MAXIMUM CATHODE CURRENT	10 mA
Octode mixer/oscillator; canonical TubeType and SectionType lists have no Octode value, so Other is used.	

The Telefunken CK1 is an indirectly heated 200 mA AC/DC octode used as a controllable mixer in superheterodyne receivers.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Philips Miniwatt Vacuum Tube Catalog

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

1938 PHILIPS MINIWATT VACUUM TUBE CATALOG

Section 1 · Octode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	200 V	Published table operating point
Plate current	1.6 mA	Published table operating point
Control-grid bias	1.5 V	Published table operating point
Screen voltage	90 V	Published table operating point
Screen current	2 mA	Published table operating point

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	550000 μ S	Published table characteristic
Plate resistance	1000000 ohm	Published table characteristic
Heater/filament voltage	13 V	Published heater/filament rating
Heater/filament current	200 mA	Published heater/filament rating

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.06 pF	Published table capacitance

1959 Telefunken

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

1959 TELEFUNKEN
Section 1 · Octode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Current	200 mA	Series-heater AC/DC operation

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Heater-to-Cathode Peak Voltage	125 V	—



SOURCE DATA APPENDIX

195X Tunsgam

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

195X TUNSGRAM
Section 1 · Octode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical oscillator-modulator plate current	1.6 mA	—
Oscillator effective grid voltage	8.5 V	—
Maximum no-current anode voltage	400 V	—
Maximum heater-cathode voltage	125 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical conversion transconductance	0.0006 A/V	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1999 Philips 0-D

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

1999 PHILIPS 0-D
Section 1 · Octode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Conversion transconductance	600 μ S	FrequencyConverter

TUBE TINKER

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