

ELECTRONIC TUBE REFERENCE

CH1

Voltage - Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

HEXODE

Hexode frequency-changing valve for early superheterodyne receivers, intended for mixer/modulator service with an external oscillator. High output resistance supports useful isolation in all-current series-heater radios.

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 Hexode	
PLATE RESISTANCE	2000000 Ω
TRANSCONDUCTANCE	0.00055 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	125 V
MAXIMUM PLATE DISSIPATION	1.5 W
MAXIMUM SCREEN DISSIPATION	0.5 W
MAXIMUM CATHODE CURRENT	10 mA
Hexode; canonical SectionType list has no Hexode value, so Other is used.	

The Telefunken CH1 is treated as a frequency-changer hexode from the supplied C-series catalog context; the excerpt does not preserve a complete CH1 data row.



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 · Hexode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	200 V	Published table operating point
Control-grid bias	2 V	Published table operating point
Screen voltage	100 V	Published table operating point
Screen current	4 mA	Published table operating point

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2000000 μS	Published table characteristic
Plate resistance	200000 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	0.003 pF	Published table capacitance



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X Tunsgam

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

195X TUNSGRAM

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical plate voltage	250 V	—
Typical combined grid-2/grid-4 voltage	80 V	—
Oscillator grid-3 voltage	9 V	RMS
Maximum no-current anode voltage	550 V	—
Maximum grid-2/grid-4 no-current voltage	400 V	—
Maximum heater-cathode voltage	125 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.

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Conversion transconductance	550 μ S	Modulator
Maximum transconductance	2600 μ S	HFIFAmplifier

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