



ELECTRONIC TUBE REFERENCE

KCH1

Voltage - Triode (with diode, heptode or hexode) electronic tube

CONSOLIDATED TECHNICAL
DATA

2 SECTIONS
CONSTRUCTION
HEXODE-TRIODE

Directly heated triode-hexode frequency changer for battery superheterodyne receivers. The triode forms the local oscillator while the hexode performs mixing, combining both front-end functions in one low-consumption valve.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	2 V / 180 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Hexode	
PLATE RESISTANCE	700000 Ω
TRANSCONDUCTANCE	0.00032 S
MAXIMUM PLATE VOLTAGE	135 V
MAXIMUM SCREEN VOLTAGE	135 V
MAXIMUM PLATE DISSIPATION	1.5 W
MAXIMUM SCREEN DISSIPATION	1 W
MAXIMUM CATHODE CURRENT	8 mA
<i>Hexode mixer section; conversion transconductance promoted.</i>	

SECTION2 Triode	
TRANSCONDUCTANCE	0.0013 S
AMPLIFICATION FACTOR	28
MAXIMUM PLATE VOLTAGE	80 V
MAXIMUM PLATE DISSIPATION	0.5 W
<i>Triode oscillator section.</i>	

Directly heated triode-hexode frequency converter for battery superheterodyne receivers. Published ratings, characteristics, operating data, capacitances, microwave/noise data, or gauge-head data were retained according to the physical device and mapped only to compatible locked-schema fields.

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 · Hexode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	90 V	Uncontrolled
Screen voltage	55 V	Uncontrolled
Plate current	1 mA	Uncontrolled
Conversion transconductance	320 μ S	Uncontrolled
Plate resistance	700000 ohm	Uncontrolled

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	135 V	—
Maximum plate dissipation	1.5 W	—
Maximum screen dissipation	1 W	—
Maximum cathode current	8 mA	—

1999 PHILIPS E-Z

Section 2 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Triode transconductance at oscillation threshold	1300 μ S	—
Triode amplification factor	28	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum triode plate voltage	80 V	—
Maximum triode plate dissipation	0.5 W	—

TUBE TINKER

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and their source documents.

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