



ELECTRONIC TUBE REFERENCE

UCH42

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

CONSOLIDATED TECHNICAL
DATA

2 SECTIONS
CONSTRUCTION
HEXODE-TRIODE

Triode-hexode frequency changer for AC/DC superheterodyne receivers. The oscillator triode supplies local oscillation while the high-resistance mixer performs frequency conversion.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	14 V / 100 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Hexode	
PLATE RESISTANCE	1000000 Ω
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	125 V
MAXIMUM PLATE DISSIPATION	1.5 W
MAXIMUM SCREEN DISSIPATION	0.3 W
Hexode mixer/converter section; SectionType=Other because Hexode is not in the canonical SectionType vocabulary.	

SECTION2 Triode	
PLATE RESISTANCE	7400 Ω
TRANSCONDUCTANCE	0.0021 S
AMPLIFICATION FACTOR	15.5
MAXIMUM PLATE VOLTAGE	175 V
MAXIMUM PLATE DISSIPATION	0.8 W
<i>Oscillator triode section.</i>	

Triode-heptode frequency changer for radio receiver oscillator and mixer service. The supplied French datasheet was translated to English for descriptive output.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 La Radiotechnique

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

1953 LA RADIOTECHNIQUE

Section 1 · Hexode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	170 V	Hexode
Screen Voltage	70 V	Hexode grids 2+4
Plate Current	2.1 mA	Hexode
Screen Current	2.6 mA	Hexode grids 2+4

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Conversion Transconductance	670 μ S	Hexode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	4.5 pF	Hexode cold
Output Capacitance	9.1 pF	Hexode cold
Coupling Capacitance	0.1 pF	Hexode cold

1953 LA RADIOTECHNIQUE

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	100 V	Triode
Grid Voltage	-2 V	Triode
Plate Current	5.5 mA	Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	7.7 pF	Triode

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Output Capacitance	4.4 pF	Triode

TUBE TINKER

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

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker