



ELECTRONIC TUBE REFERENCE

UCH71

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

CONSOLIDATED TECHNICAL
DATA

2 SECTIONS
CONSTRUCTION
HEPTODE-TRIODE

Series-heater triode-heptode for radio receivers, combining oscillator and frequency-converter functions. Manufacturer documentation also supports RF, IF, or AF amplification where appropriate.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	20 V / 100 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
MAXIMUM PLATE VOLTAGE	175 V
MAXIMUM PLATE DISSIPATION	0.5 W
<i>Lorenz UCH71 indirectly heated 20 V, 100 mA series-heater triode-heptode for radio frequency conversion and additional AF amplification service. Oscillator triode may couple its grid to the third heptode grid or operate separately as RC-coupled AF voltage amplifier. Manufacturer limiting ratings for triode: maximum operating anode 175 V and plate dissipation 0.5 W; cold-anode voltage values are distinct from continuous limits. Oscillator dynamic transconductance around 0.44–0.45 mA/V at listed 100/200 V supply points is not the same as intrinsic static gm.</i>	

SECTION2 Heptode	
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	15 mA
<i>Lorenz UCH71 heptode section for mixer or IF-amplifier service; nominal 20 V, 100 mA series heater shared with oscillator triode. Manufacturer maximum operating anode 250 V, plate dissipation 1.5 W, cathode current 15 mA. Screen-grid ratings vary with operating anode current and the stated cold-grid voltage must not be promoted as a universal running screen limit. Mixing conversion conductance and IF amplifier slope are separate operating-mode characteristics.</i>	

Triode-heptode for RF/IF/AF amplification and frequency conversion.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1955 Lorenz

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

1955 LORENZ

Section 1 · Triode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Oscillator transconductance	0.00045 A/V	200VSupply

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