



ELECTRONIC TUBE REFERENCE

1E8

Voltage - Pentode or Tetrode (under 100V) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

HEPTODE

Very-low-power directly heated pentagrid converter for portable superheterodyne receivers. It combines oscillator and mixer functions while drawing only about 40 mA from a 1.25 V filament.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8CN	BASE PINS	8
NOMINAL HEATER	1.25 V / 40 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Heptode	
PLATE RESISTANCE	400000 Ω
TRANSCONDUCTANCE	0.00015 S
MAXIMUM PLATE VOLTAGE	67.5 V
MAXIMUM SCREEN VOLTAGE	45 V
<i>Pentagrid converter section.</i>	

Directly heated pentagrid converter for frequency-converter service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Heptode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	67.5 V	—
Maximum screen-grid voltage	45 V	—
Oscillator grid current	0.07 mA	Converter
Oscillator grid resistor	100000 Ohm	Converter
Plate voltage	67.5 V	Converter
Screen-grid voltage	67.5 V	Converter
Control-grid voltage	0 V	Converter
Plate current	1 mA	Converter
Screen-grid current	1.5 mA	Converter
Plate resistance	400000 Ohm	Converter
Conversion transconductance	150 uS	Converter

TUBE TINKER

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and their source documents.

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