



ELECTRONIC TUBE REFERENCE

14S7

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

CONSOLIDATED TECHNICAL
DATA

2 SECTIONS
CONSTRUCTION
HEPTODE-TRIODE

Triode-heptode frequency changer for superheterodyne radio receivers. A separate triode provides local oscillation while the heptode performs frequency conversion, combining the receiver front-end oscillator and mixer functions within one envelope.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8BL	BASE PINS	8
NOMINAL HEATER	12.6 V / 150 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode

No fixed ratings recorded.

Promoted from clearly identified printed ratings/characteristics; additional published operating points and capacitances retained in TUBE_SECTION_PARAMETER.

SECTION2 Heptode

PLATE RESISTANCE	1250000 Ω
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	100 V
<i>Promoted from clearly identified printed ratings/characteristics; additional published operating points and capacitances retained in TUBE_SECTION_PARAMETER.</i>	

The BRIMAR 14S7 is a triode-heptode frequency changer with a 12.6 V heater.

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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Oscillator plate voltage	250 V	Converter
Oscillator plate series resistance	20000 Ω	Converter
Oscillator plate current	5 mA	Converter
Oscillator-grid current	0.4 mA	Converter
Oscillator-grid resistor	50000 Ω	Converter

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 2 · Heptode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	Converter
Screen voltage	100 V	Converter
Control-grid voltage	-2 V	Converter
Plate current	1.8 mA	Converter
Screen current	3 mA	Converter

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	1250000 Ω	Converter
Conversion transconductance	525 μS	Converter