

ELECTRONIC TUBE REFERENCE

6AE8

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

CONSOLIDATED TECHNICAL DATA

2 SECTIONS
CONSTRUCTION
HEXODE-TRIODE

Triode-hexode frequency converter for radio receivers: the triode serves as the local oscillator while the hexode performs frequency mixing, with approximately 780 μ S conversion transconductance.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8DU	BASE PINS	9
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
MAXIMUM PLATE VOLTAGE	250 V
Promoted values from 6AE8.pdf; section type follows printed electrode/function description.	

SECTION2 Hexode	
PLATE RESISTANCE	700000 Ω
TRANSCONDUCTANCE	0.00078 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	100 V
Promoted values from 6AE8.pdf; section type follows printed electrode/function description.	

Triode-hexode frequency converter.

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
Plate voltage	100 V	Oscillator
Plate current	4.5 mA	Oscillator

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 2 · Hexode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	Converter
Screen-grid voltage	75 V	Converter
Control-grid voltage	0 V	Converter
Plate current	4.5 mA	Converter
Screen-grid current	3.4 mA	Converter
Conversion transconductance	780 μ S	Converter

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Oscillator grid peak voltage	10 V	Converter
Oscillator grid resistor	50000 ohm	Converter