



ELECTRONIC TUBE REFERENCE

6BN7

Power - TV Vertical Output electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Dual triode intended for television vertical-deflection service, combining oscillator/driver and power-output functions where applicable. Manufacturer data emphasize vertical-sweep operation, pulse-voltage capability, and the stronger section's current and dissipation requirements.

GENERAL CHARACTERISTICS

BASE DESIGNATION	6BN7	BASE PINS	9
NOMINAL HEATER	6.3 V / 750 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	14000 Ω
TRANSCONDUCTANCE	0.002 S
AMPLIFICATION FACTOR	28
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	1.5 W
Section #2: oscillator/discharge section.	

SECTION2 Triode	
PLATE RESISTANCE	2200 Ω
TRANSCONDUCTANCE	0.0054 S
AMPLIFICATION FACTOR	12
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	7.5 W
Section #1: vertical amplifier/output section.	

Two electrically dissimilar triodes designed as a combined vertical oscillator and vertical deflection amplifier in television receivers.

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	250 V	Section1 VerticalDeflection
Control-grid voltage	-15 V	Section1 VerticalDeflection
Positive pulse plate voltage maximum	1500 V	Section1 VerticalDeflection
Plate dissipation maximum	7.5 W	Section1 VerticalDeflection

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	120 V	Section2 ClassA
Control-grid voltage	-10 V	Section2 ClassA
Plate current	5 mA	Section2 ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	14000 Ω	Section2 ClassA
Transconductance	2000 μS	Section2 ClassA
Amplification factor	28	Section2 ClassA

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	120 V	ClassA;Section2

1961 TUNG SOL

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	ClassA;Section1
Peak Positive Pulse Plate Voltage	1500 V	Section1

TUBE TINKER

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