

ELECTRONIC TUBE REFERENCE

6BL7GT

Power - TV Vertical Output electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Twin high-perveance low-mu triode developed for television vertical sweep-generator and deflection-amplifier service. Two independent sections provide substantial current and pulse-voltage capability for vertical scanning and other demanding pulse or driver circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8BD	BASE PINS	8
NOMINAL HEATER	6.3 V / 1.5 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

8BD - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – 2G1	B	G1 – Control Grid	CONNECTED
PIN2 – 2P	B	P – Plate (Anode)	CONNECTED
PIN3 – 2K	B	K – Cathode	CONNECTED
PIN4 – 1G1	A	G1 – Control Grid	CONNECTED
PIN5 – 1P	A	P – Plate (Anode)	CONNECTED
PIN6 – 1K	A	K – Cathode	CONNECTED
PIN7 – H	–	H – Heater	CONNECTED
PIN8 – H	–	H – Heater	CONNECTED

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	2000 Ω
TRANSCONDUCTANCE	0.007 S
AMPLIFICATION FACTOR	15
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM CATHODE CURRENT	60 mA
<i>Representative row for two independent low-mu triodes.</i>	

SECTION2 Triode	
PLATE RESISTANCE	2000 Ω
TRANSCONDUCTANCE	0.007 S
AMPLIFICATION FACTOR	15
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM CATHODE CURRENT	60 mA
<i>Identical second physical Triode section; duplicated from representative section per physical-section-row policy.</i>	

Two independent high-perveance low-mu triodes for combined vertical sweep generator and deflection-amplifier service 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	VerticalDeflection
Control-grid voltage	-9 V	VerticalDeflection
Plate current	40 mA	VerticalDeflection
Positive pulse plate voltage maximum	2000 V	VerticalDeflection
Plate dissipation maximum per section	10 W	VerticalDeflection
Combined plate dissipation maximum	12 W	TwoSections
DC cathode current maximum	60 mA	VerticalDeflection

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	2150 Ω	Section1
Transconductance	7000 μS	Section1
Amplification factor	15	Section1

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Positive Pulse Plate Voltage	2000 V	VerticalDeflectionAmplifier
TotalPlateDissipationBothSections	12 W	—

TUBE TINKER

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