



ELECTRONIC TUBE REFERENCE

6BL7GTA

Power - TV Vertical Output electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Medium-mu twin power triode used for oscillator, amplifier, and television vertical-deflection service. Published vertical-sweep ratings include high positive pulse voltage and substantial combined plate dissipation, supporting demanding deflection-output operation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	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

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	2150 Ω
TRANSCONDUCTANCE	0.007 S
AMPLIFICATION FACTOR	15
MAXIMUM PLATE VOLTAGE	500 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM CATHODE CURRENT	60 mA
Each section; representative row.	

SECTION2 Triode	
PLATE RESISTANCE	2150 Ω
TRANSCONDUCTANCE	0.007 S
AMPLIFICATION FACTOR	15
MAXIMUM PLATE VOLTAGE	500 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM CATHODE CURRENT	60 mA
<i>Two high-perveance low-mu triodes for television vertical sweep-generator and deflection-amplifier service.</i>	

Medium-mu twin triode for oscillator, amplifier, and deflection service. The supplied datasheet was read for heater data, maximum ratings, characteristics, typical operating information, and interelectrode capacitances where published.

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

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Positive Pulse Plate Voltage	2000 V	VerticalDeflectionAmplifier
TotalPlateDissipationBothSections	12 W	—
Peak Cathode Current	210 mA	—

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 1 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MAXIMUM TOTAL PLATE DISSIPATION (BOTH PLATES) Z	—	Maximum Ratings MAXIMUM TOTAL PLATE DISSIPATION (BOTH PLATES) Z2 Z2 WATTS
HEATER VOLTAGE	6.3 V	Typical Operating Conditions HEATER VOLTAGE 6.3 6.3 6.3 VOLTS
HEATER CURRENT	1.5 A	Typical Operating Conditions HEATER CURRENT 1.5 1.5 1.5 AMP.
PLATE CURRENT	40 mA	Typical Operating Conditions PLATE CURRENT 65 4.0 40 MA.



SOURCE OPERATING CONDITIONS

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1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Triode

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



SOURCE OPERATING CONDITIONS

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1971 RCA HB3 Binder 4 of 7

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

1971 RCA HB3 BINDER 4 OF 7

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage	6.3 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Current	1.5 A	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid to plate – published value 1	6	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid to plate – published value 2	6	Published datasheet value; multiple values represent separate source-table limits or conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to cathode and heater – published value 1	4.2	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid to cathode and heater – published value 2	4.6	Published datasheet value; multiple values represent separate source-table limits or conditions.
Plate to cathode and heater – published value 1	0.9	Published datasheet value; multiple values represent separate source-table limits or conditions.
Plate to cathode and heater – published value 2	0.9	Published datasheet value; multiple values represent separate source-table limits or conditions.
Plate Voltage – published value 1	150 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Plate Voltage – published value 2	250 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Plate Voltage – published value 3	250 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid Voltage – published value 1	0 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid Voltage – published value 2	-17 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid Voltage – published value 3	-9 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Plate Resistance (Approx.)	2150 ohm	Published datasheet value; multiple values represent separate source-table limits or conditions.
Transconductance	7000	Published datasheet value; multiple values represent separate source-table limits or conditions.
Plate Current – published value 1	65 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
Plate Current – published value 2	4 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current – published value 3	40 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
plate current of 50 μ a – published value 1	50 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
plate current of 50 μ a – published value 2	23 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 1 -Grid of – published value 1	1	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 1 -Grid of – published value 2	5	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 2 -Plate of – published value 1	2	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 2 -Plate of – published value 2	6	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pi n 3 -Cathode of – published value 1	3	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pi n 3 -Cathode of – published value 2	7	Published datasheet value; multiple values represent separate source-table limits or conditions.
Unit No.2	8	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 4 -Grid of	4	Published datasheet value; multiple values represent separate source-table limits or conditions.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC PLATE VOLTAGE	500 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
PEAK NEGATIVE-PULSE GRID VOLTAGE ~	400 V	Published datasheet value; multiple values represent separate source-table limits or conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Either plate	10 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
Both plates (Both units operating)	12 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
Heater negative with respect to cathode	200 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Heater positive with respect to cathode	200 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid-Circuit Resistance	4.7 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
DC PLATE VOLTAGE	500 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
PEAK NEGATIVE-PULSE GRID VOLTAGE	250 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Either platet	10 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
Heater negative with respect to cathode	200 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Heater positive with respect to cathode	200 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
For Cathode-bias operationt	4.7 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1975 RCA RC30

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

1975 RCA RC30

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Dissipation	1.7 W	Promoted from published datasheet table

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	0 A/V	Promoted from published datasheet table
Amplification Factor	–	Promoted from published datasheet table

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