



ELECTRONIC TUBE REFERENCE

5881

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Beam-power pentode electrically related to the 6L6 family, designed for audio-frequency power amplification with documented single-ended and push-pull output operation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	T7AC	BASE PINS	7
NOMINAL HEATER	6.3 V / 900 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
PLATE RESISTANCE	30000 Ω
TRANSCONDUCTANCE	0.0061 S
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM SCREEN VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	23 W
MAXIMUM SCREEN DISSIPATION	3 W

Published ratings and characteristics promoted from the approved source.

Beam power pentode electrically equivalent to the 6L6/6L6G family, intended for audio-frequency power amplification and related beam-power service.



SOURCE OPERATING CONDITIONS

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1950 General Electric Transmitting Types

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

1950 GENERAL ELECTRIC TRANSMITTING TYPES

Section 1 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	6.3 V	—
HeaterOrFilamentCurrent	900 mA	—
Application	HighPowerAudioFrequencyAmplifier	—



SOURCE OPERATING CONDITIONS

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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 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA;OneTube
Screen voltage	250 V	ClassA;OneTube
Control-grid voltage	-14 V	ClassA;OneTube
Plate current	75 mA	ClassA;OneTube
Screen current	4.3 mA	ClassA;OneTube
Load resistance	2500 Ω	ClassA;OneTube

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power output	6.7 W	ClassA;OneTube
Plate voltage	360 V	ClassAB;PushPull;TwoTubes
Screen voltage	270 V	ClassAB;PushPull;TwoTubes
Control-grid voltage	-22.5 V	ClassAB;PushPull;TwoTubes
Plate current	88 mA	ClassAB;PushPull;TwoTubes
Screen current	5 mA	ClassAB;PushPull;TwoTubes
Load resistance plate-to-plate	6600 Ω	ClassAB;PushPull;TwoTubes
Power output	26.5 W	ClassAB;PushPull;TwoTubes

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	30000 Ω	ClassA
Transconductance	6100 μS	ClassA



SOURCE OPERATING CONDITIONS

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1966 Tung Sol Electronic Tubes 3 of 4

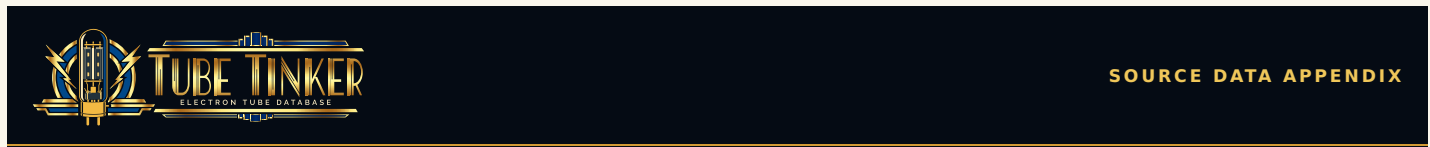
Published test conditions and operating points. Values on this page are preserved as reported by this source.

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	900 mA	—
Maximum plate voltage, triode connection	400 V	TriodeConnection
Maximum plate dissipation, triode connection	26 W	TriodeConnection
Power output	11.3 W	ClassA;OneTube
Power output	17.5 W	ClassAB;PushPull
Power output	28 W	ClassAB;PushPull

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	400 V	—
Maximum screen voltage	400 V	—
Maximum plate dissipation	23 W	—
Maximum screen dissipation	3 W	—



SOURCE OPERATING CONDITIONS

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1971 RCA HB3 Binder 3 of 7

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

1971 RCA HB3 BINDER 3 OF 7

Section 1 · Beam Power

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage	6.3 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Current	900 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Pin 1 -No Connec – published value 1	1	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Pin 1 -No Connec – published value 2	5	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
tion	7	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Pin 2 -Heater	2	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Pin 3 -Plate	3	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Pin 4 -Grid No.2	4	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage – published value 1	250 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Voltage – published value 2	300 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Voltage – published value 3	350 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Grid-No.2 Voltage – published value 1	250 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Grid-No.2 Voltage – published value 2	200 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Grid-No.2 Voltage – published value 3	250 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Voltage – published value 1	-14 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Voltage – published value 2	-12.5 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Voltage – published value 3	-18 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Peak AF Grid-No.1 Voltage – published value 1	14 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Peak AF Grid-No.1 Voltage – published value 2	12.5 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Peak AF Grid-No.1 Voltage – published value 3	18 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Zero-Signal Plate Current – published value 1	75 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Zero-Signal Plate Current – published value 2	48 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Zero-Signal Plate Current – published value 3	53 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Zero-Signal Grid-No.2 Current – published value 1	4.3 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Zero-Signal Grid-No.2 Current – published value 2	2.5 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Zero-Signal Grid-No.2 Current – published value 3	2.5 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Resistance (Approx.) – published value 1	30000 ohm	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Resistance (Approx.) – published value 2	35000 ohm	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Resistance (Approx.) – published value 3	48000 ohm	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Transconductance – published value 1	6100	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Transconductance – published value 2	5300	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Transconductance – published value 3	5200	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Load Resistance – published value 1	2500 ohm	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Load Resistance – published value 2	4500 ohm	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Load Resistance – published value 3	4200 ohm	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
For cathode-bias operation	0.5 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage – published value 1	250 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Voltage – published value 2	300 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Grid-No.1 (Control-Grid) Voltage – published value 1	-18 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Grid-No.1 (Control-Grid) Voltage – published value 2	-20 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Peak AF Grid-No.1 Voltage – published value 1	18 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Peak AF Grid-No.1 Voltage – published value 2	20 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Zero-Signal Plate Current – published value 1	52 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Zero-Signal Plate Current – published value 2	78 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Transconductance	5250	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PLATE VOLTAGE	400 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
ARID-No.2 (SCREEN-GRID) VOLTAGE	400 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
GRID-No.2 INPUT	3 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
PLATE DISSIPATION	23 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater negative with respect to cathode	200 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Heater positive with respect to cathode	200 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Max.-Signal Plate Current – published value 1	80 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Max.-Signal Plate Current – published value 2	55 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Max.-Signal Plate Current – published value 3	65 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Max.-Signal Grid-No.2 Current – published value 1	7.6 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Max.-Signal Grid-No.2 Current – published value 2	4.7 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Max.-Signal Grid-No.2 Current – published value 3	8.5 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Max.-Signal Power Output – published value 1	6.7 W	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Max.-Signal Power Output – published value 2	6.5 W	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Max.-Signal Power Output – published value 3	11.3 W	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
For fixed-bias operation	0.1 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
PLATE DISSIPATION	26 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Heater negative with respect to cathode	200 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater positive with respect to cathode	200 V	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Max.-Signal Plate Current – published value 1	58 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Max.-Signal Plate Current – published value 2	85 mA	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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2026 JJ Electronic

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

2026 JJ ELECTRONIC

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power Output	6.7 W	ClassA;OneTube;Plate 250 V;Screen 250 V;Load 2.5 kohm
Power Output	17.5 W	PushPull;TwoTubes;Plate 270 V;Screen 270 V;Load 5 kohm


SOURCE DATA APPENDIX

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2026 Sovtek

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

2026 SOVTEK

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power Output	–	HI-FI audio output service

SOURCE OPERATING CONDITIONS

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2026 Tungsol Rebrand

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

2026 TUNG SOL REBRAND

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power Output	—	HI-FI audio output; Class A/push-pull data published