

ELECTRONIC TUBE REFERENCE

6L6WGB

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
BEAMPOWER

Premium ruggedized 6L6-family beam-power tube for military, industrial, and audio-output service, combining familiar amplifier characteristics with enhanced durability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7AC	BASE PINS	8
NOMINAL HEATER	6.3 V / 900 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

7AC - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – Pin 1	–	–	NC · verified
PIN2 – Pin 2	–	H – Heater	CONNECTED · verified
PIN3 – Pin 3	A	P – Plate (Anode)	CONNECTED · verified
PIN4 – Pin 4	A	G2 – Screen Grid	CONNECTED · verified
PIN5 – Pin 5	A	G1 – Control Grid	CONNECTED · verified
PIN7 – Pin 7	–	H – Heater	CONNECTED · verified
PIN8 – Pin 8	A	BP – Beam-Forming Plate	CONNECTED · verified
PIN8 – Pin 8	A	K – Cathode	CONNECTED · verified

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	22000 Ω
TRANSCONDUCTANCE	0.0052 S
MAXIMUM PLATE VOLTAGE	360 V
MAXIMUM SCREEN VOLTAGE	270 V
MAXIMUM PLATE DISSIPATION	26 W
MAXIMUM SCREEN DISSIPATION	2.5 W
MAXIMUM CATHODE CURRENT	150 mA
<i>Published ratings/characteristics promoted where applicable; additional source-table values retained in parameter rows.</i>	

Premium rugged beam power tube for military, industrial, and audio-output service. Data was extracted from the supplied Tung-Sol source, including published ratings, characteristics, and operating information.

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 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	900 mA	—
Plate voltage	250270360360360350 V	Typical operating conditions
Plate current	12013488887888 mA	Typical operating conditions

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	22000 ohm	PromotedValue
Transconductance	0.0052 A/V	PromotedValue
6.3 VOLTS 0.9 AMP. — published value 1	6.3 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
6.3 VOLTS 0.9 AMP. — published value 2	0.9 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ALENT TO TYPES 61.6 ANU 6L6G, EXCEPT THAT PLATE AND SCREEN DISSIPATIONS – published value 1	6	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
ALENT TO TYPES 61.6 ANU 6L6G, EXCEPT THAT PLATE AND SCREEN DISSIPATIONS – published value 2	6	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
HEATER	6.3 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
HEATER VOLTAGE – published value 1	6.3 volTs	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
HEATER VOLTAGE – published value 2	6.3 volTs	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
HEATER CURRENT – published value 1	0.9 AMP	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
HEATER CURRENT – published value 2	0.9 AMP	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
PLATE VOLTAGE – published value 1	300 volTs	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
PLATE VOLTAGE – published value 2	350 volTs	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
GRID #2 VOLTAGE – published value 1	200 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
GRID #2 VOLTAGE – published value 2	250 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
GRID #i VOLTAGE – published value 1	-12.5 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
GRID #i VOLTAGE – published value 2	-18 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
PEAK AF GRID #1 VOLTAGE – published value 1	12.5 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PEAK AF GRID #1 VOLTAGE – published value 2	18 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
ZERO SIGNAL PLATE CURRENT – published value 1	48 mA	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
ZERO SIGNAL PLATE CURRENT – published value 2	54 mA	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
TRANSCONDUCTANCE – published value 1	5300	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
TRANSCONDUCTANCE – published value 2	5200	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
PLATE RESISTANCE – published value 1	33 OHMS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
PLATE RESISTANCE – published value 2	0 OHMS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
LOAD RESISTANCE – published value 1	4500 oHMs	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
LOAD RESISTANCE – published value 2	4200 oHMs	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	360 V	PromotedValue
Maximum screen voltage	270 V	PromotedValue
Maximum plate dissipation	26 W	PromotedValue
Maximum screen dissipation	2.5 W	PromotedValue
Maximum cathode current	150 mA	PromotedValue
MAXIMUM DC PLATE	4 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
MAXIMUM DC GRIC – published value 1	3 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MAXIMUM DC GRIC – published value 2	0 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
MAXIMUM PLATE	26 WATTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
MAXIMUM – published value 1	2 WATTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
MAXIMUM – published value 2	3 WATTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
MAXIMUM SIGNAL GRID #2 CURRENT' – published value 1	4.7 mA	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
MAXIMUM SIGNAL GRID #2 CURRENT' – published value 2	7 mA	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
MAXIMUM SIGNAL PLATE CURRENT – published value 1	55 mA	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.