

ELECTRONIC TUBE REFERENCE

6188

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
TRIODE-TRIODE

Special-quality twin triode designed for long-life, high-reliability amplifier service, providing two similar sections for critical industrial or professional electronic equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	44000 Ω
TRANSCONDUCTANCE	0.0016 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	275 V
MAXIMUM PLATE DISSIPATION	1.1 W
MAXIMUM CATHODE CURRENT	12 mA
Representative row for electrically identical repeated sections.	

SECTION2 Triode	
PLATE RESISTANCE	44000 Ω
TRANSCONDUCTANCE	0.0016 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	275 V
MAXIMUM PLATE DISSIPATION	1.1 W
MAXIMUM CATHODE CURRENT	12 mA
<i>Second physical triode restored.</i>	

THE 6188/6SU7WGT IS A RUGGEDIZED, HIGH MU, TWIN TRIODE IN THE OCTAL



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
Plate Voltage	250 V	ClassA;EachSection
Service	Military/industrial voltage amplifier or oscillator —	

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	2.3 mA	ClassA;EachSection



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 4 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 4 OF 4

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal
Heater current	300 mA	Nominal
Maximum plate voltage	275 V	Promoted published value
Maximum plate dissipation	1.1 W	Promoted published value
HEATER VOLTAGE	6 V	RATINGS
MAXIMUM DC PLATE VOLTAGE	275 V	RATINGS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MAXIMUM HEATER-CATHODE VOLTAGE	1100 V	RATINGS
MAXIMUM PLATE DISSIPATION (EACH SECTION)	1.1 W	RATINGS
MAXIMUM BULB TEMPERATURE +165 oG	165 mA	RATINGS
PLATE VOLTAGE	250 V	CLASS A1 AMPLIFIER (EACH SECTION)
GRID VOLTAGE _	2 V	CLASS A1 AMPLIFIER (EACH SECTION)
PLATE CURRENT	2.3 mA	CLASS A1 AMPLIFIER (EACH SECTION)
PLATE RESISTANCE	0 ohm	CLASS A1 AMPLIFIER (EACH SECTION)
AMPLIFICATION FACTOR 70	70 A	CLASS A1 AMPLIFIER (EACH SECTION)
HEATER CURRENT	325 mA	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
HEATER CATHODE LEAKAGE (Ehk=f	10 V	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	44000 ohm	Promoted published value
Transconductance	1600 uS	Promoted published value
Amplification factor	70	Promoted published value
PLATE CURRENT 1.55 3.05 2.00 2.60 --- --- mAdc	2.6 mA	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
PLATE CURRENT DIFFERENCE F - -- t0.1 _-- _-- Vdc	0.1 V	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
GRID CURRENT DIFFERENCE F - - t	1.5 V	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
ENVELOPE TEMPERATURE =	165 C	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
PINS. TEMP.= 25+5 L~ HUMIDITY=0, VOLTAGE SHALL BE OF SINUSOIDAL WAVEFORM AT F=	60 Hz	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
OHMS RESISTANCE BETWEEN #1 GRID AND GROUND.	1 ohm	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

