



ELECTRONIC TUBE REFERENCE

6098

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Ruggedized beam pentode optimized for high peak plate current at negative grid potentials, especially suited to industrial and military airborne communications equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 1.2 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
PLATE RESISTANCE	21000 Ω
TRANSCONDUCTANCE	0.006 S
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM SCREEN VOLTAGE	315 V
MAXIMUM PLATE DISSIPATION	21 W
MAXIMUM SCREEN DISSIPATION	3.5 W
MAXIMUM CATHODE CURRENT	125 mA
MAXIMUM HEATER-CATHODE VOLTAGE	200 V
6098/6AR6WA co-designated rugged beam pentode; maximum plate field uses highest published Class B value; class-specific limits retained in parameters.	

The 6098, co-designated 6AR6WA, is a ruggedized single-ended beam pentode for high peak plate current at negative grid potentials and is especially suited to industrial and military airborne communications

equipment.



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
MaximumPeakForwardPlateVoltage	1250 V	—
Maximum Bulb Temperature	225 C	—
Service	Industrial/military power amplifier or oscillator	—



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 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal
Heater current	1.2 A	Nominal
Maximum plate voltage	400 V	Promoted published value
Maximum screen voltage	315 V	Promoted published value
Maximum plate dissipation	21 W	Promoted published value
Maximum screen dissipation	3.5 W	Promoted published value
Maximum cathode current	125 mA	Promoted published value
HEATER VOLTAGE 6. 3t,10\$ 6. 3f 10\$ VOLTS	1 V	CLASS A CLASS R

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MAXIMUM DC PLATE VOLTAGE	600 V	CLASS A CLASS R
MAXIMUM DC GRID k2 VOLTAGE	315 V	CLASS A CLASS R
MAXIMUM OC GRID M1 CURRENT 0 ____ mA	1 mA	CLASS A CLASS R
MAXIMUM PI ATE DISSIPATION	21 W	CLASS A CLASS R
MAXIMUM GRID 82 DISSIPATION	3.5 W	CLASS A CLASS R
MAXIMUM HEATER-CATHODE VOLTAGE t200 t2G0 VOLTS	2 V	CLASS A CLASS R
MAXIMUM DC CATHODE CURRENT A i	60 mA	CLASS A CLASS R
MAXIMUM BULB TEMPERATURE	225 mA	CLASS A CLASS R
MAXIMUM PEAK FORWARD PLATE VOLTAGE	1250 V	CLASS A CLASS R
HEATER VOLTAGE 6.3 b.	3 V	CLASS A1 AMPLIFIER
HEATER CURRENT	1.2 A	CLASS A1 AMPLIFIER
DC PLATE VOLTAGE	250 V	CLASS A1 AMPLIFIER
DC GRID 8i VOLTAGE -12.5 –	22.5 V	CLASS A1 AMPLIFIER
MAXIMUM GRID Mi CIRCUIT RESISTANCE 100 000 100 000 OHMS	100 mA	CLASS A1 AMPLIFIER
DC PLATE CURRENT	77 mA	CLASS A1 AMPLIFIER
GRID #2 CURRENT TIED TO PLATE	5 mA	CLASS A1 AMPLIFIER
PLATE RESISTANCE (APPROX.) 1 000 21 000 OHMS	21 ohm	CLASS A1 AMPLIFIER
FOR PLATE CURRENT CUTOFF –	65 V	CLASS A1 AMPLIFIER
HEATER CURRENT	1.32 A	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	21000 ohm	Promoted published value
Transconductance	5400 uS	Promoted published value
PLATE CURRENT 55 100 68 86 - -- --- mAdc	86 mA	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
SCREEN GRID CURRENT ____ B.0 6,2 --- - mAdc	62 mA	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
/~ GRID #1 TRANSCONDUCTANCE 10 PERCENT	1 percent	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
L BULB TEMPERATURE SMALL BE DEFINED AB THE HI GX EST TEMPERATURE INDI LATED WHEN USI X6 A TXERMO–	6 mA	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

TUBE TINKER

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