



ELECTRONIC TUBE REFERENCE

6216

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Beam-power transmitting tube for RF power amplification and related high-frequency service, providing substantial output in compact communications equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	6216	BASE PINS	9
NOMINAL HEATER	6.3 V / 800 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
PLATE RESISTANCE	18500 Ω
TRANSCONDUCTANCE	0.0128 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM SCREEN DISSIPATION	1 W
MAXIMUM CATHODE CURRENT	110 mA
<i>Promoted from clearly identified printed ratings/characteristics; additional published operating points and capacitances retained in TUBE_SECTION_PARAMETER.</i>	

Ruggedized beam-power pentode for amplifier and pass-tube service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	12.3 pF	Section1
Output capacitance	6.7 pF	Section1
Grid-to-plate capacitance	0.37 pF	Section1

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	200 V	ClassA
Screen voltage	100 V	ClassA
Control-grid voltage	-6 V	ClassA
Plate current	47 mA	ClassA
Screen current	2 mA	ClassA
Load resistance	4500 Ω	ClassA
Power output	3.8 W	ClassA
Plate voltage	100 V	FilterReactor
Screen voltage	100 V	FilterReactor
Control-grid voltage	-3 V	FilterReactor
Plate current	72 mA	FilterReactor
Screen current	3 mA	FilterReactor
Maximum grid-circuit resistance	100000 Ω	FilterReactor

Characteristic		
Parameter	Published Value	Condition / Note
Plate resistance	38000 Ω	ClassA
Transconductance	8800 μS	ClassA
Plate resistance	18500 Ω	FilterReactor
Transconductance	12800 μS	FilterReactor



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.

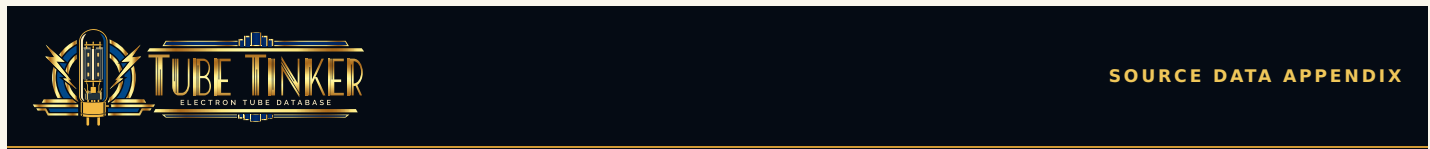
1961 TUNG SOL

Section 1 · Beam Power

Other		
Parameter	Published Value	Condition / Note
Heater voltage	6.3 V	Nominal
Heater current	800 mA	Nominal
Plate voltage	100 V	Published operating table; OperatingPoint1
Plate voltage	200 V	Published operating table; OperatingPoint1
Screen voltage	200 V	Published operating table; OperatingPoint1
Screen voltage	100 V	Published operating table; OperatingPoint1
Screen voltage	100 V	Published operating table; OperatingPoint1
Power output	3.8 W	Published operating table; OperatingPoint1

Characteristic		
Parameter	Published Value	Condition / Note
Plate current	72 mA	Published operating table; OperatingPoint1
Plate current	47 mA	Published operating table; OperatingPoint1
Plate current	51 mA	Published operating table; OperatingPoint1
Transconductance	12 μS	Published operating table; OperatingPoint1
Transconductance	800 μS	Published operating table; OperatingPoint2
Plate resistance	18 Ω	Published operating table; OperatingPoint1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	500 ohm	Published operating table; OperatingPoint2
Plate resistance	38 ohm	Published operating table; OperatingPoint1
Plate resistance	860 ohm	Published operating table; OperatingPoint2



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/filament voltage	6.3 V	—
Heater/filament current	600 mA	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application summary	Ruggedized beam-power pentode for amplifier and pass-tube service.	

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	—
Screen voltage	250 V	—
Plate current	50 mA	—
Transconductance	6500 uS	—
Plate dissipation	12 W	—