



ELECTRONIC TUBE REFERENCE

6BK5

Power - Beam Single (NOT sweep) (under 10W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Beam-power amplifier designed primarily for audio power-output service, providing a compact output stage for radio and consumer electronic equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9BQ	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

SECTION1 Beam Power	
PLATE RESISTANCE	100000 Ω
TRANSCONDUCTANCE	0.0085 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	9 W
MAXIMUM SCREEN DISSIPATION	2.5 W
<i>Promoted from the printed maximum-rating/characteristic columns; additional operating-point data retained as section parameters.</i>	

Beam-power amplifier intended primarily for audio power-output 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	13 pF	Section1
Output capacitance	5 pF	Section1
Grid-to-plate capacitance	0.6 pF	Section1

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA
Screen voltage	250 V	ClassA
Plate current	35 mA	ClassA
Load resistance	6500 Ω	ClassA
Power output	3.5 W	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	100000 Ω	ClassA
Transconductance	8500 μS	ClassA

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
Plate Voltage	250 V	ClassA
Screen Voltage	250 V	ClassA
Power Output	3.5 W	ClassA
Load Resistance	6500 ohm	ClassA



SOURCE DATA APPENDIX

1965 Sylvania Electronic Tubes Vol3

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

1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 1 · Beam Power

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	450 mA	—
Plate resistance	100000 ohm	—
Transconductance	8500 uS	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	250 V	—
Maximum screen voltage	250 V	—
Maximum plate dissipation	9 W	—
Maximum screen dissipation	2.5 W	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical plate voltage	250 V	—
Typical screen voltage	250 V	—
Typical grid voltage	-5 V	—
Zero-signal plate current	35 mA	—
Load resistance	6500 ohm	—
Power output	3.5 W	—
Total harmonic distortion	7 %	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.6 pF	—
Input capacitance	13 pF	—
Output capacitance	5 pF	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1966 Tung Sol Electronic Tubes 1 of 4

SOURCE PDF

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

1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

Section 1 · Beam Power

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GRID #	0.06 μμf	Capacitances GRID #1 TO PLATES G1 TO P 0.06 μμf

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HEATER VOLTAGE G	3 V	Maximum Ratings HEATER VOLTAGE G.3 VOLTS
MAXIMUM PLATE VOLTAGE	250 V	Maximum Ratings MAXIMUM PLATE VOLTAGE 250 VOLTS
MAXIMUM PLATE DISSIPATION	9 W	Maximum Ratings MAXIMUM PLATE DISSIPATION 9 WATTS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MAXIMUM GRID #	2.5 W	Maximum Ratings MAXIMUM GRID #2 DISSIPATION 2.5 WATTS
HEATER VOLTAGE C)	3 V	Typical Operating Conditions HEATER VOLTAGE C).3 VOLTS
Published electrical value	-5 V	Typical Operating Conditions 6R ID #1 VOLTAGE -5 VOLTS
ZERO- SIGNAL PLATE CURRENT	35 mA	Typical Operating Conditions ZERO- SIGNAL PLATE CURRENT 35 MA.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	ClassA
Screen Voltage	250 V	ClassA
Grid1 Voltage	-5 V	ClassA
Peak AF Grid1 Voltage	5 V	ClassA
Zero Signal Plate Current	35 mA	ClassA
Maximum Signal Plate Current	37 mA	ClassA
Zero Signal Screen Current	3.5 mA	ClassA
Maximum Signal Screen Current	10 mA	ClassA
Load Resistance	6500 ohm	ClassA
Total Harmonic Distortion	7 %	ClassA
Maximum Signal Power Output	3.5 W	ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid1 To Plate Capacitance	0.6 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	13 pF	—
Output Capacitance	5 pF	—

TUBE TINKER

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and their source documents.

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