

ELECTRONIC TUBE REFERENCE

35B5

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Beam-power output tube designed for audio-frequency power stages in AC/DC radio and television receivers using series-connected heaters.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7BZ	BASE PINS	8
NOMINAL HEATER	35 V / 150 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

7BZ - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – Pin 1	A	G1 – Control Grid	CONNECTED • verified
PIN2 – Pin 2	A	G3 – Suppressor Grid	CONNECTED • verified
PIN2 – Pin 2	A	K – Cathode	CONNECTED • verified
PIN3 – Pin 3	–	H – Heater	CONNECTED • verified
PIN4 – Pin 4	–	H – Heater	CONNECTED • verified
PIN5 – Pin 5	A	P – Plate (Anode)	CONNECTED • verified
PIN6 – Pin 6	A	G2 – Screen Grid	CONNECTED • verified
PIN7 – Pin 7	A	G1 – Control Grid	CONNECTED • verified

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	34000 Ω
TRANSCONDUCTANCE	0.006 S
MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM SCREEN VOLTAGE	117 V
MAXIMUM PLATE DISSIPATION	8.5 W
MAXIMUM SCREEN DISSIPATION	1 W
<i>Published promoted fields populated by semantic section ownership.</i>	

Beam power amplifier designed for high power sensitivity at low plate and screen voltages. It uses a nominal 35 V, 0.15 A heater. The supplied datasheet was used for ratings, characteristics, and typical operating data.

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	11 pF	Section1
Output capacitance	6.5 pF	Section1
Grid-to-plate capacitance	0.4 pF	Section1

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	110 V	ClassA
Screen voltage	110 V	ClassA
Control-grid voltage	-7.5 V	ClassA
Plate current	40 mA	ClassA
Screen current	3 mA	ClassA
Load resistance	2500 Ω	ClassA
Power output	1.5 W	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	5800 μ S	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
Power Output	3 W	ClassA1



SOURCE DATA APPENDIX

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	14000 ohm	Published datasheet value
InterelectrodeCapacitanceDataPublished	1 boolean	See supplied datasheet capacitance table

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaxPlateVoltage	117 V	Published datasheet value
MaxScreenVoltage	117 V	Published datasheet value
MaxPlateDissipation	4.5 W	Published datasheet value
MaxScreenDissipation	1 W	Published datasheet value
Heater Voltage	35 V	Nominal heater rating
Heater Current	150 mA	Nominal heater rating

TUBE TINKER

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and their source documents.

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