

ELECTRONIC TUBE REFERENCE

7A5

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Lock-In beam-power amplifier for low-voltage audio output, providing approximately 1.5 W single-ended Class-A power from roughly 110 V supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	6AA	BASE PINS	8
NOMINAL HEATER	6.3 V / 700 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

6AA - TERMINAL PINOUT

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

TERMINAL	SECTION	ELEMENT	STATUS
PIN8 – Pin 8	–	H – Heater	CONNECTED · verified

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	16000 Ω
TRANSCONDUCTANCE	0.0058 S
MAXIMUM PLATE VOLTAGE	125 V
MAXIMUM SCREEN VOLTAGE	125 V
MAXIMUM PLATE DISSIPATION	5.5 W
MAXIMUM SCREEN DISSIPATION	1.2 W
Published handbook ratings and representative operating characteristics reviewed.	

A Lock-In beam-power amplifier tube intended for 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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	125 V	Published handbook rating
Maximum screen voltage	125 V	Published handbook rating
Plate voltage	110 V	ClassA
Screen voltage	110 V	ClassA
Control-grid bias	7.5 V	ClassA
Plate current	40 mA	ClassA
Screen current	3 mA	ClassA
Load resistance	2500 ohm	ClassA
Power output	1.5 W	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	16000 ohm	Published handbook characteristic
Transconductance	5800 μ S	Published handbook characteristic
Heater voltage	6.3 V	Published heater rating
Heater current	750 mA	Published heater rating

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	700 mA	Nominal
Plate voltage	125 V	Typical operating conditions
Screen voltage	125 V	Typical operating conditions
Plate current	40 mA	Typical operating conditions
Screen current	3 mA	Typical operating conditions

TUBE TINKER

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