



ELECTRONIC TUBE REFERENCE

5932

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Rugged beam-power amplifier designed for control and power-amplifier service in equipment exposed to severe vibration and shock.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7AC	BASE PINS	7
NOMINAL HEATER	6.3 V / 900 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

7AC - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – Pin 1	–	–	NC · verified
PIN2 – Pin 2	–	H – Heater	CONNECTED · verified
PIN3 – Pin 3	A	P – Plate (Anode)	CONNECTED · verified
PIN4 – Pin 4	A	G2 – Screen Grid	CONNECTED · verified
PIN5 – Pin 5	A	G1 – Control Grid	CONNECTED · verified
PIN7 – Pin 7	–	H – Heater	CONNECTED · verified
PIN8 – Pin 8	A	BP – Beam-Forming Plate	CONNECTED · verified
PIN8 – Pin 8	A	K – Cathode	CONNECTED · verified

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	22500 Ω
TRANSCONDUCTANCE	0.006 S
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	19 W
MAXIMUM SCREEN DISSIPATION	2.5 W
Beam-power section; Class A operating data and output load/power retained as parameters.	

Rugged beam-power amplifier tube designed for control or power-amplifier service under severe vibration and shock.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage (Avg.) . . 6.3 Volts Ti2	6.3 V	Heater Voltage (Avg.) . . 6.3 Volts Ti2
Heater Voltage (Design Center) 6.3 Volts	6.3 V	Heater Voltage (Design Center) 6.3 Volts
Heater Current (Avg.) . 900 Ma	900 Ma	Heater Current (Avg.) . 900 Ma
Plate Voltage 400 360 Volts 48 TOP	360 V	Plate Voltage 400 360 Volts 48 TOP
Plate Dissipation 21 19.0 Watts	19 W	Plate Dissipation 21 19.0 Watts
Screen Dissipation . . . 275 2.5 Watts	2.5 W	Screen Dissipation . . . 275 2.5 Watts
Heater-Cathode Voltage . *200 #+180 Volts	180 V	Heater-Cathode Voltage . *200 #+180 Volts
Plate Voltage 250 Volts	250 V	Plate Voltage 250 Volts
Grid Voltage® . . ~-14 Volts	-14 V	Grid Voltage® . . ~-14 Volts
Peak AF Signal Voltage 14 Volts	14 V	Peak AF Signal Voltage 14 Volts
Plate Current (Zero Signal) . 58 72 86 Ma	86 Ma	Plate Current (Zero Signal) . 58 72 86 Ma
Screen Current (Zero Signal) 0 5 8 Ma	8 Ma	Screen Current (Zero Signal) 0 5 8 Ma
Plate Resistance . 22500 Ohms	22500 Ohms	Plate Resistance . 22500 Ohms
Load Resistance . 2500 Ohms	2500 Ohms	Load Resistance . 2500 Ohms
Power Output 5.4 6.5 Watts	6.5 W	Power Output 5.4 6.5 Watts

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage e 300 350 Volts	350 V	Plate Voltage e 300 350 Volts
Screen Voltage 200 250 Volts	250 V	Screen Voltage 200 250 Volts
Grid Voltage? . -12.5 -18 Volts	-18 V	Grid Voltage? . -12.5 -18 Volts
Peak AF Signal Voltage 12.5 18 Volts	18 V	Peak AF Signal Voltage 12.5 18 Volts
Plate Current (Zero Signal) . 48 54 Ma	54 Ma	Plate Current (Zero Signal) . 48 54 Ma
Screen Current (Zero Signal) 2.5 2.5 Ma	2.5 Ma	Screen Current (Zero Signal) 2.5 2.5 Ma
Plate Resistance . 35000 33000 Ohms	33000 Ohms	Plate Resistance . 35000 33000 Ohms
Load Resistance . 4500 4200 Ohms	4200 Ohms	Load Resistance . 4500 4200 Ohms
Power Output . 6.5 10.8 Watts	10.8 W	Power Output . 6.5 10.8 Watts
Plate Voltage . 250 270 360 360 360 360 Volts	360 V	Plate Voltage . 250 270 360 360 360 360 Volts
Screen Voltage 250 250 270 270 225 270 Volts	270 V	Screen Voltage 250 250 270 270 225 270 Volts
Grid Voltage® . . -16 -17.5 -22.5 -22.5 -18 -22.5 Volts	-22.5 V	Grid Voltage® . . -16 -17.5 -22.5 -22.5 -18 -22.5 Volts
Peak AF Grid to Grid Voltage 32 35 45 45 52 72 Volts	72 V	Peak AF Grid to Grid Voltage 32 35 45 45 52 72 Volts
Plate Current (Zero Signal) . 120 134 88 88 78 88 Ma	88 Ma	Plate Current (Zero Signal) . 120 134 88 88 78 88 Ma
Screen Current (Zero Signal) . 10 11 5 5 3.5 5 Ma	5 Ma	Screen Current (Zero Signal) . 10 11 5 5 3.5 5 Ma
Load Resistance 5000 5000 6600 3800 6000 3800 Ohms	3800 Ohms	Load Resistance 5000 5000 6600 3800 6000 3800 Ohms
Power Output . 145 175 26.5 18 31 47 Watts	47 W	Power Output . 145 175 26.5 18 31 47 Watts
.25 megobm may be used for self bias providing the beater voltage will not exceed 7.0 volts under an	7 V	.25 megobm may be used for self bias providing the beater voltage will not exceed 7.0 volts under any prob-

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage (Abs. Max.) 7.0 Volts 3.844"MAX. 3.281°MA)	7 V	Heater Voltage (Abs. Max.) 7.0 Volts 3.844"MAX. 3.281°MA)
Heater Current (Max.)2 . 960 Ma f	960 Ma	Heater Current (Max.)2 . 960 Ma f
Heater Current (Min.)2 . 840 Ma 1,265 MAX	840 Ma	Heater Current (Min.)2 . 840 Ma 1,265 MAX
Screen Voltage . 300 270 Volts 1L 655 MAX	270 V	Screen Voltage . 300 270 Volts 1L 655 MAX
Plate Current (Maximum Signal) 79 Ma	79 Ma	Plate Current (Maximum Signal) 79 Ma
Screen Current (Maximum Signal) 7.3 Ma	7.3 Ma	Screen Current (Maximum Signal) 7.3 Ma
Plate Current (Maximum Signal) 55 66 Ma	66 Ma	Plate Current (Maximum Signal) 55 66 Ma
Screen Current (Maximum Signal) 4.7 7.0 Ma	7 Ma	Screen Current (Maximum Signal) 4.7 7.0 Ma
Plate Current (Max. Sigpal) . 140 155 132 140 142 205 Ma	205 Ma	Plate Current (Max. Sigpal) . 140 155 132 140 142 205 Ma
Screen Current (Max. Signal) . 16 17 15 11 11 16 Ma	16 Ma	Screen Current (Max. Signal) . 16 17 15 11 11 16 Ma



SOURCE DATA APPENDIX

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
Plate Voltage	250 V	ClassA
Screen Voltage	250 V	ClassA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid Voltage	-14 V	ClassA
Plate Current	72 mA	ClassA
Screen Current	5 mA	ClassA
Load Resistance	2500 ohm	ClassA
Power Output	6.5 W	ClassA

TUBE TINKER

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