



ELECTRONIC TUBE REFERENCE

5933

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Beam-power pentode for audio and RF amplifier applications, with published Class-B and Class-C operating ratings extending through VHF frequencies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5AW	BASE PINS	5
NOMINAL HEATER	6.3 V / 1.2 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

5AW - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – H	–	H – Heater	CONNECTED
PIN2 – G2	A	G2 – Screen Grid	CONNECTED
PIN3 – G1	A	G1 – Control Grid	CONNECTED
PIN4 – G3	A	G3 – Suppressor Grid	CONNECTED
PIN4 – K	A	K – Cathode	CONNECTED
PIN5 – H	–	H – Heater	CONNECTED
CAP1 – P	A	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Beam Power	
MAXIMUM PLATE VOLTAGE	750 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	25 W
MAXIMUM SCREEN DISSIPATION	3.5 W
MAXIMUM CATHODE CURRENT	120 mA
<i>RF/AF beam-power tetrode.</i>	

Beam power pentode for audio and RF amplifier applications, with published Class B and Class C ratings through VHF frequencies.



SOURCE OPERATING CONDITIONS

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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 Current (Avg) e e e e e e e e a e .. 900 Ma	900 Ma	Heater Current (Avg) e e e e e e e e a e .. 900 Ma
Heater Current (Min.)2 810 Ma TI2	810 Ma	Heater Current (Min.)2 810 Ma TI2
Plate Current 24 36 43 Ma	43 Ma	Plate Current 24 36 43 Ma
Screen Current — — 4 Ma	4 Ma	Screen Current — — 4 Ma
Plate Current for E. == =100 Volts . . . — — 0.5 Ma	0.5 Ma	Plate Current for E. == =100 Volts . . . — — 0.5 Ma
Plate Voltage 400 500 600 750 Volts	750 V	Plate Voltage 400 500 600 750 Volts
Screen Grid Voltage® 300 300 300 300 Volts	300 V	Screen Grid Voltage® 300 300 300 300 Volts
Control Grid Voltage . . e e e e e e e e e =25 229 S30 -32 Volts	-32 V	Control Grid Voltage . . e e e e e e e e =25 229 S30 -32 Volts
Peak Grid to Grid Signal Voltage e e e e e e e 78 86 78 92 Volts	92 V	Peak Grid to Grid Signal Voltage e e e e e e e 78 86 78 92 Volts
Plate Current (Zero Signal). 90 72 60 52 Ma	52 Ma	Plate Current (Zero Signal). 90 72 60 52 Ma
Screen Current (Zero Signal) 5 5 5 5 Ma	5 Ma	Screen Current (Zero Signal) 5 5 5 5 Ma

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Load Resistance (Plate to Plate) 3200 4240 6400 6950 Ohms	6950 Ohms	Load Resistance (Plate to Plate) 3200 4240 6400 6950 Ohms
Power Output (approx) 8 e e e e e e e e 55 75 80 120 Watts	120 W	Power Output (approx) 8 e e e e e e e e 55 75 80 120 Watts
Plate Voltage 400 500 600 750 Volts	750 V	Plate Voltage 400 500 600 750 Volts
Screen Grid Voltage 250 250 250 300 Volts	300 V	Screen Grid Voltage 250 250 250 300 Volts
Control Grid Voltage® =25 =25 -25 =35 Volts	35 V	Control Grid Voltage® =25 =25 -25 =35 Volts
Plate Current « « + « . + + « + « o « . . 75 75 625 60 Ma	60 Ma	Plate Current « « + « . + + « + « o « . . 75 75 625 60 Ma
Screen Current . . e e e e e e e e 4 4 3 3 Ma	3 Ma	Screen Current . . e e e e e e 4 4 3 3 Ma
Control Grid Current (approx) e e e e e e e e 0 0 0 Ma	0 Ma	Control Grid Current (approx) e e e e e e e e 0 0 0 Ma
Driving Power (approx.) 025 025 0.2 0.12 Watt	0.12 W	Driving Power (approx.) 025 025 0.2 0.12 Watt
Power Output (approx.) « . + + + « « « + . 9 125 125 15 Watts	15 W	Power Output (approx.) « . + + + « « « + . 9 125 125 15 Watts
Plate Voltage. . e e e e e e e e e 325 400 475 600 Volts	600 V	Plate Voltage. . e e e e e e e e 325 400 475 600 Volts
Screen Grid Voltage! 10 e e e e e e e e 225 225 225 275 Volts	275 V	Screen Grid Voltage! 10 e e e e e e e e 225 225 225 275 Volts
Control Grid Voltage!* =75 -80 -85 -90 Volts	-90 V	Control Grid Voltage!* =75 -80 -85 -90 Volts
Screen Current . . e e e e e e 5 5.75 5 6.5 Ma	6.5 Ma	Screen Current . . e e e e e e 5 5.75 5 6.5 Ma
Grid Current (approx.) c e e e e e e e 3 3.5 4 4 Ma	4 Ma	Grid Current (approx.) c e e e e e e e 3 3.5 4 4 Ma

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power Output (approx.) 17.5 225 275 42.5 Watts	42.5 W	Power Output (approx.) 17.5 225 275 42.5 Watts
Plate Voltage. . e e e e e e e e e e 400 500 600 750 Volts	750 V	Plate Voltage. . e e e e e e e e e e 400 500 600 750 Volts
Screen Grid Voltage12 e e e e e e e e e e 250 250 250 250 Volts	250 V	Screen Grid Voltage12 e e e e e e e e e e 250 250 250 250 Volts
Control Grid Voltage!3 -45 -45 -45 -45 Volts	45 V	Control Grid Voltage!3 -45 -45 -45 -45 Volts
Plate Current. 100 100 100 100 Ma	100 Ma	Plate Current. 100 100 100 100 Ma
Screen Current . . e e e e e e e 7.5 6.0 7.0 6.0 Ma	6 Ma	Screen Current . . e e e e e e e 7.5 6.0 7.0 6.0 Ma
Grid Current (approx.) e e e e e e e e e 3.5 3.5 3.5 35 Ma	35 Ma	Grid Current (approx.) e e e e e e e e e 3.5 3.5 3.5 35 Ma
Power Output (approx.) 25 30 40 50 Watts	50 W	Power Output (approx.) 25 30 40 50 Watts

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Current (Max.)2 « . . 990 Ma	990 Ma	Heater Current (Max.)2 « . . 990 Ma
Plate Voltage (Class B,RFor AF) 600 Volts Max. 1 700" MAX	600 V	Plate Voltage (Class B,RFor AF) 600 Volts Max. 1 700" MAX
Screen Voltage . . e e e « « « « < . 300 Volts Max.	300 V	Screen Voltage . . e e e « « « « < . 300 Volts Max.
Control Grid Voltage (Class C) e v+« « <« « . . . =200 Volts Max.	200 V	Control Grid Voltage (Class C) e v+« « <« « . . . =200 Volts Max.
Plate Dissipation (Class C, Phone3) 16.5 Watts Max.	16.5 W	Plate Dissipation (Class C, Phone3) 16.5 Watts Max.
Screen Dissipation (Class B, R F) e e e e e e 0. 25 Watts Max.	25 W	Screen Dissipation (Class B, R F) e e e e e e 0. 25 Watts Max.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen Dissipation (Class C, Phone?) 2.5 Watts Max.	2.5 W	Screen Dissipation (Class C, Phone?) 2.5 Watts Max.
Frequency for 100% Rating < . . 60 Mc Max.	60 MHz	Frequency for 100% Rating < . . 60 Mc Max.
Plate Current (Maximum Signal) 240 240 200 240 Ma	240 Ma	Plate Current (Maximum Signal) 240 240 200 240 Ma
Screen Current (Maximum Signal) 10 10 10 10 Ma	10 Ma	Screen Current (Maximum Signal) 10 10 10 10 Ma


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1958 Compagnie General

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

1958 COMPAGNIE GENERAL

Section 1 · Beam Power

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	900 mA	—
Full-Power Frequency Limit	60 MHz	Approximate
Half-Power Frequency	125 MHz	Approximate

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Natural-Cooling Plate Dissipation	25 W	—
Useful Output Power Minimum	30 W	Below 60MHz
Useful Output Power Maximum	40 W	Below 60MHz


SOURCE DATA APPENDIX

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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input-Unshielded	1 pF	—
Output-Unshielded	7 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power Output	120 W	ClassAB;PushPull;PlateVoltage=750V
Power Output	50 W	ClassC;RFPowerAmplifierOrOscillator;PlateVoltage=750V



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	900 mA	—
Class B AF maximum plate current	120 mA	ClassB;AF
Class B RF maximum plate current	80 mA	ClassB;RF
Class C continuous plate current	100 mA	ClassC;RF
Full-rating frequency	60 MHz	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
75 percent rating frequency	125 MHz	—
Altitude	80000 ft	—
Maximum plate voltage	600 V	—
Maximum screen voltage	300 V	—
Maximum plate dissipation	25 W	—
Maximum screen dissipation	3.5 W	—
Maximum cathode current	120 mA	—

TUBE TINKER

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and their source documents.

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