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BEAM POWER AMPLIFIER (TENTATIVE DATA)

HEATER VOLTAGE (A.C. of D.C.) ## HEATER CURRENT	6.3 0.45	Voits Ampere	
MAXIMUM OVERALL LENGTH	3-1/4"		
MAXIMUM DIAMETER	-5/16"		
BASE	Small Wafer Octal 7-Pin		

Static and Dynamic Characteristics

HEATER VOLTAGE	6.3	Voits
PLATE VOLTAGE	250	Volts
SCREEN VOLTAGE	250	Volts
GRID VOLTAGE	-12.5	Voits
AMPLIFICATION FACTOR	218	
PLATE RESISTANCE	52 000	Ohms
TRANSCONDUCTANCE	4 100	Micromhos
PLATE CURRENT	49	Milliamperes
SCREEN CURRENT	4.5	Milliamperes

MAXIMUM RATINGS and TYPICAL OPERATING CONDITIONS

As Single-Tube Amplifier - Class A17

PLATE VOLTAGE		250 max.	VOITS
SCREEN VOLTAGE		250 max.	Volts
PLATE & SCREEN DISSIPATION (Total) #		12.5 max.	Watts
TYPICAL OPERATION:			
Plate Voltage	180	250	Voits
Screen Voltage	180	250	Volts
Grid Voltage 0	-8.5	-12.5	Volts
Peak A-F Grid Voitage (Approx.)	8.5	12.5	Volts
Zero-Signal Plate Current	29	45	Milliamperes
MaxSignal Plate Current	30	47	Milliamperes
Zero-Signal Screen Current	3	4.5 6.5	Milliamperes
MaxSignal Screen Current	4	6.5	Milliamperes
Load Resistance	5500	5000	Ohms
Harmonic Distortion:			
Total	6	6	Per cent
Second	5.5 2.5	4,5	Per cent
Third	2.5	3.5	Per cent
MaxSignal Power Output	2	4.25	Watts

As Push-Pull Amplifier - Class AB1*

PLATE VOLTAGE		300	max.	Voits
SCREEN VOLTAGE				Volts
PLATE & SCREEN DISSIPATION (Total) #				Watts
TYPICAL OPERATION:				
Talues are	for 2 tubes			
Plate Voltage	250	300		Volts
Screen Voltage	250	300		Volts
Grid Voltage ^D	- 15	- 20		Volts
Peak A-F Grid-to-Grid Voitage	30	40		Volts
Zero-Signal Plate Current	30 70	78		Milliamperes
MaxSignal Plate Current	79 5 12	90 5		Milliamperes
Zero-Signal Screen Current	5	5		Milliamperes
MaxSignal Screen Current	12	13.5		Milliamperes
Load Rešistance	10000	8000		Ohms
Harmonic Distortion:				
Total	4	4		Per cent
Third	3.5	3.5		Per cent
MaxSignal Power Output	3.5 8.5	13		Watts

- Subscript I indicates that grid current does not flow during any part of the input cycle.
- Precautions should be taken to insure that dissipation rating is not exceeded with expected line-voltage fluctuation, especially in case of fixed-bias operation.
- ## The heater should be operated at 6.3 volts. Under maximum dissipation conditions, heater voltage should never fluctuate so that it exceeds 7.0 volts. The poten The potential difference between heater and cathode should be kept as low as possible.
- The type of input coupling used should not introduce too much resistance in the grid circuit. Transformer— or impedance—coupling devices are recommended. When the grid circuit has a resistance not higher than 0.05 megohm, fixed bias may be used; for higher values, self—bias is required. With self—bias, the grid circuit may have a resistance not to exceed 0.5 megohm, provided the heater voltage is not allowed to rise more than 10% above the rated value under any condition of operation.

Pin Connections

Pin 1-Shell Pin 2-Heater

Pin 3-Plate

Pin 5-Grid Pin 7-Heater

Pin B-Cathode