

BEAM POWER TUBE

For high-fidelity audito-amplifier applications

GENERAL DATA

1	•	LIILIAL		-					
Electrical:									
Heater, for Unipote Voltage Current Direct Interelectr		. 6.	3 ·				.ac	or do	volts
Grid No.1 to pla Grid No.1 to cat	te						1.	.5	$\mu\mu$ f
grid No.2, and Plate to cathode	heater		• •				1	10	μμf
grid No.2, and					•		7.	.5	$\mu\mu$ f
Characteristics, C									
Plate Voltage Grid-No.2 (Screen-Grid-No.1 (Control- Plate Resistance (Transconductance. Plate Current Grid-No.2 Current	-Grid) ∖ Approx.) · · · ·	/oltage	· · ·	 	:		25 1 2250 600	. 4)0	volts volts volts ohms µmhos ma ma
Mechanical:									
Operating Position Maximum Overall Le Maximum Seated Len Maximum Diameter. Bulb Base Basing Designation Pin 1 - Grid No.2 Pin 2 - Heater Pin 3 - Plate Pin 4 - Grid No.2 Pin 5 - Grid No.1	ngthgth	воттом	with VIEW		nal	l-Wa e (J Pin	fer ETE(• • • 6 – (7 – H	Octal	1.63" . T12 ! 8-Pin ! 88-191) 8HY
PUSH-PUL	L AF PO	VER AMF	LIFI	ER -	- (Clas	s AE	3 ₁	
Maximum Ratings, D								•	
PLATE VOLTAGE GRID-No.2 (SCREEN-CATHODE CURRENT:	-				:		50 00	max. max.	volts volts
Peak			: :		:	1 3	00 10 .5 25	max. max. max. max.	ma ma watts watts
O: See next page.									



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PEAK HEATER-CATHODE VOLTAGE: Heater negative with respect to Heater positive with respect to	cathode.	2	200 max. 200≜ max.	volts volts
Typical Operation with Fixed Bias				
Values are for Plate Voltage	330 330 330	s 400 300	450 350	volts volts
Grid-No.1 (Control-Grid) Voltage	-24	– 25	-30	volts
Voltage	48 122 184 5.6 18.5 4500 1	50 102 152 6 17 6600 2 34	60 95 194 3.4 19.2 6000 1.5 50	volts ma ma ma ohms watts
Typical Operation with Cathode Bi	•	- '	-	
Values are fo		s		
Plate-Supply Voltage Grid-No.2 Supply Voltage Cathode Resistor Peak AF Grid-No.1-to-Grid-No.1	400 300 200)	380 380 180	volts volts ohms
Voltage	51 112 128 16	2 3 7	68.5 138 170 5.6 20	volts ma ma ma
Effective Load Resistance (Plate to plate) Total Harmonic Distortion Max.—Signal Power Output	6600 2 32	2	4500 3.5 36	ohms % watts
Maximum Circuit Values:				
Grid-No.1-Circuit Resistance: For fixed-bias operation For cathode-bias operation).1 max.).5 max.	megohn megohn
PUSH-PULL AF POWER AMPL	IFIER	· Clas	s ABı	
Grid No.2 of each tube of plate winding of out	connected	d to	tap on	
Maximum Ratings, Design-Center Va				
PLATE AND GRID—No.2 (SCREEN-GRID) SUPPLY VOLTAGE			450 max.	volts
O,≜,⊕: See next page.				
			CENTATIVE	DATA 1





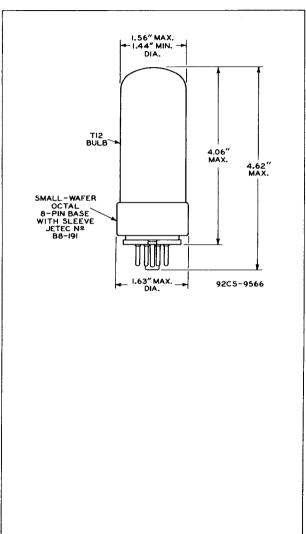
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CATHORE CURRENT.		
CATHODE CURRENT: Peak	400 max. 110 max. 3 max. 25 max. 200 max. 200 max.	watts volts
Typical Operation:		
Values are for 2 tubes		
Plate-Supply Voltage. Grid-No.2 Supply Voltage. Cathode Resistor. Peak AF Grid-No.1-to-Grid-No.1 Voltage. Zero-Signal Cathode Current MaxSignal Cathode Current Fffective Load Resistance (Plate to plate) Total Harmonic Distortion MaxSignal Power Output.	410 * 220 68 134 155 8000 1.6 24	volts volts ohms volts ma ohms watts
Maximum Circuit Values: Grid-No.1-Circuit Resistance: For cathode-bias operation O Without external shield.	0.5 max.	megohm
I .		

- ▲ The dc component must not exceed 100 volts.
- The type of input coupling network used should not introduce too much resistance in the grid-No.1 circuit. Transformer- or impedance-coupling devices are recommended.
- Obtained from taps on the primary winding of the output transformer. The taps are located on each side of the center tap (6+) so as to apply 43 per cent of the plate signal voltage to grid No.2 of each output tube.

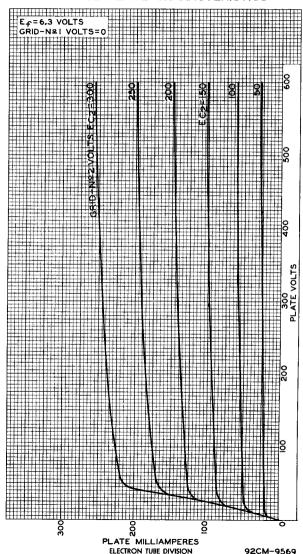


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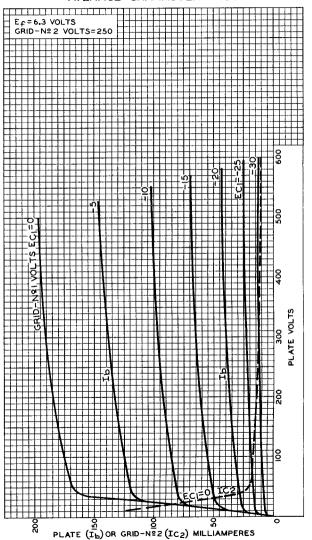


AVERAGE PLATE CHARACTERISTICS





AVERAGE CHARACTERISTICS

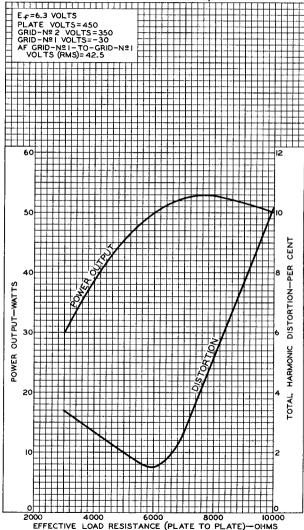


ELECTRON TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-9570



OPERATION CHARACTERISTICS PUSH-PULL CLASS ABI



7027

AVERAGE PLATE CHARACTERISTICS TRIODE CONNECTION

