Beam Power Tube

Triode

GENERAL DATA

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Heater Characteristics and Ratings (Design-Co		
Voltage (AC or DC)	6.3 ± 0.6	volts
Current at heater volts = 6.3 1	.600	amp
Peak heater-cathode voltage:		
Heater negative with		
respect to cathode	300 ª max.	volts
Heater positive with		
respect to cathode		volts
Direct Interelectrode Capacitances (Approx.)		
Grid No.1 to plate	0.85	μμf
Grid No.1 to cathode & grid No.3,		
grid No.2, base sleeve, and heater	14.0	$\mu\mu$ f
Plate to cathode & grid No.3, grid		
No.2, base sleeve, and heater	12.0	μμf

Characteristics, Class A, Amplifier:

	Connect	iona		
Plate Voltage	250	450	400	volts
Grid-No.2 Voltage	250	450	225	volts
Grid-No.1 Voltage	-14	-46	-16.5	volts
Amplification Factor	8	7.5	-	
Plate Resistance (Approx.)	12000	-	27000	ohms
Transconductance	11000	-	9000	<i>μ</i> mhos
Plate Current	140	150	87	ma
Grid-No.2 Current	12	-	4	ma
Grid-No.1 Voltage (Approx.)				
for plate ma. = 1	-40	_	-35	volts

Mechanical:

Operating Position.

Type of	Cath	ode											٠	. '	Coa	iteo	1	Uni	pc	ten	tıa	ı
Maximum																						
Maximum	Seate	ed L	.end	ith													,			4-3	/16'	٠
Maximum	Diame	eter	·																	2-1	/16'	٠
Bulb																					ST16	ò
Base	. La	rge-	-Wat	er	00	cta	ı1	8-	Ρi	n	wi	th	S	Ìе	eve	: (.	JΕ	DEC	: 0	rou	p 1,	,
		•																	No	.B8	-86	j
Basing	g Des	igna	atio	าก	for	r B	OT	TC	М	۷I	ΕW										.73	ŝ

Pin 1 - Base Sleeve Pin 2 - Heater Pin 3 - Plate

Pin 4-Grid No.2 Pin 5-Grid No.1

Pin 6 - No Internal Connection Pin 7 - Heater Pin 8 - Cathode,

Grid No.3

AF POWER AMPLIFIER - Class A:

olts
olts
olts
olts
ma
atts
atts
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olts
olts
olts
ma
ma
ma
ma
ohms
mhos
ohms
. %
atts
qohm
gohm

PUSH-PULL AF POWER AMPLIFIER - Class A

Maximum Ratings, Design-Center Values:

Same as for AF POWER AMPLIFIER - Class A1

Typical Operation and Characteristics:

Values are for 2 tubes

	Fixed Bias	Cathode Bias	
Plate Supply Voltage	400 60	00 400	volts
Grid-No.2 Supply Voltage	275 30	00 300	volts
Grid-No.1 Voltage	-23 -3	31 –	volts
Cathode Resistor		140	ohms
Peak AF Grid-No.1-to-Grid-No.1			
Voltage	46 6	52 53	volts
Zero-Signal Plate Current	180 11	15 166	ma
MaxSignal Plate Current	270 27	73 190	ma
Zero-Signal Grid-No.2 Current	9	4 7.5	ma
MaxSignal Grid-No.2 Current	44 4	1 39	ma
Effective Load Resistance (Plate			
to plate)	3500 500	00 4500	ohms

Total Harmonic Distortion 3 2. MaxSignal Power Output 55 10	
Maximum Circuit Values: Grid-No.1-Circuit Resistance: For fixed-bias operation	0.05 max. megohm 0.25 max. megohm
PUSH-PULL AF POWER AMPLIFIER C	lass Al
Triode Connection d	
Oil build Sulface/ 1 1 1 1 1 1 1 1 1 1 1	495 max. volts 440 max. volts 330 max. volts 0 max. volts 92.5 max. ma 6.6 max. watts 44 max. watts
Typical Operation and Characteristics:	
Plate Voltage	450 volts -46 volts 92 volts 150 ma 220 ma 4000 ohms 2.5 % 28 watts
Maximum Circuit Values: Grid—No.1—Circuit Resistance: For fixed—bias operation	0.05 max. megohm 0.25 max. megohm

d Grid No. 2 connected to plate.



The dc component must not exceed 300 volts.

b The dc component must not exceed 100 volts

C without external shield.