



## BEAM POWER AMPLIFIER

Filament	Coated Series*	Parallel**	,		
Filament Arrangement					
Voltage	2.8	1.4	d-c volts		
Current	0.05	0.1	amp.		
Direct Interelectrode Capaci	tances (Approx	(.): <sup>0</sup>			
Grid to Plate	0.6		μμτ		
Input	8.0		phi		
Output	6.5		- µµt		
Maximum Overall Length			3-5/16		
Maximum Seated Height			2-3/4"		
Maximum Diameter	(4 <u>)</u> (5)		1-5/16" T-9		
Bulb		Intermediate She			
Base Pin 1 - No Connection	9				
Pin 2 - Filament	7	Pin 3 - Gr	1. (- series)		
Pin 3 - Plate	C 170	Pin 8 - Fi	id 1.(-,series) 1.(-,parallel)		
Pin 4 - Screen	والمعرب				
Mounting Position	KEY	•	Any		
l R∩"	TTOM VIEW (G	_7AP}			

## BOTTOM VIEW (G-7AP)

## Maximum Ratings Are Design-Center Values

## <u>AMPLIFIER</u>

Filament Arrangement	Series"		Parallel""				
Plate Voltage	110	max.		110	max.	volts	
Screen Voltage		max.		110	max.	volts	
Total Zero-Sig. Cath.	Cur. 6	#max.			max.	ma.	
Typical Operation and Characteristics-Class A, Amplifier:							
Plate	90	110	85	90	110	volts	
Screen	90	110	85	90	110	volts	
Grid A	-4.5	-6.6	-5	-4.5	-6.6	volts	
Peak A-F Grid Voltage	4.5	5.1	5	4.5	5.4	volts	
Plate Cur.	8.0	8.5		9.5	10	ma.	
Screen Cur.(approx.)	1.0	1.1	0.8	1.3	1.4	ma.	
Plate Res. (approx.)	80000	110000	70000	90000	100000	ohms	
Transcond.	2000	2000		2200	2200	µmhos	
Load Res.	8000	8000	9000	8000	8000	ohms	
Tot. Harm. Dist.	8.5	8.5	5.5	6.0	6.0	%	
MaxSig.Power Output	230	330	250	270	400	mw.	

- Filament voltage applied across the two sections in series between pins No.2 and No.7. Grid voltage is referred to pin No.7.
- \*\*Filament voltage applied across the two sections in parallel between pin No.8 and pins No.2 and No.7 connected together. Grid voltage is referred to pin No.8.
- \* For each 1.4-volt filament section. For series operation of the sections, a shunting resistor must be connected across the section between pins No.7 and No.8 to by-pass any cathode current in excess of the rated maximum per section. When other tubes in series-filament arrangement contribute to the filament current of the 305-GT/G, an additional shunting resistor may be required between pins No.2 and No.7.
- The grid circuit resistance should not exceed 1.0 megohm for either cathode bias or fixed bizs operation.
- with a peak a-f grid voltage equal to the grid bias, the power output for the 110-volt condition is: 500 mw at 10% total harmonic distortion for parallel filament Operation: and 400 mw at 10% total harmonic distortion for series filament operation.
- O With no external shield.

Curves shown under Type 1Q5-GT/G also apply to the 3Q5-GT/G with the filaments connected in parallel.

-Indicates a change.

DATA