

# GAMMATRON

6-37

Engineering Data Sheet  
Type 354-D-1  
(Tentative)

## TYPE HK-354-D

### SPECIAL SPECIFICATIONS AND APPLICATIONS

This sheet is in supplement to Engineering Data Sheets 354-1 and 354-C-1. This tube is normally supplied in the high frequency style (grid connection on side of the blank) and the physical and electrical data of sheet 354-C-1 applies. On special order this tube will be supplied in the standard style (grid connection on base) and the physical and electrical data of sheet 354-1 will apply. The following exceptions in electrical data should be noted and are applicable to both styles.

Maximum Average Grid Current...0.055 Amps.

Average Plate Impedance.....4200 Ohms

Average Amplification Factor.....22

### RADIO FREQUENCY AMPLIFIER CLASS "C" (SINGLE TUBE)

Plate Supply Volts	Plate Milli-amperes	Grid Bias Volts	Grid Milli-amperes	Effective Excitation Volts	Driving Power Watts	Power Input Watts	Load Resistance Ohms	Power Output Watts	Plate Loss Watts	Plate Efficiency Per Cent
1500	300	-236	50	335	24	450	2360	316	135	70
2000	297	-242	50	368	26	595	3300	445	150	75
2500	274	-317	50	420	30	685	4590	535	150	78
3000	255	-424	50	495	35	765	6170	614	150	80
3500	240	-490	50	540	38	840	7500	690	150	82

### RADIO FREQUENCY DOUBLER (SINGLE TUBE)

Plate Supply Volts	Plate Milli-amperes	Grid Bias Volts	Grid Milli-amperes	Effective Excitation Volts	Driving Power Watts	Power Input Watts	Load Resistance Ohms	Power Output Watts	Plate Loss Watts	Plate Efficiency Per Cent
1000	250	-361	50	450	32	250	2680	100	150	40
1500	200	-458	50	512	36	300	5040	150	150	50
2000	175	-619	50	620	44	350	7630	200	150	57

### CLASS "B" AUDIO AMPLIFIER PERFORMANCE (TWO TUBES)

Plate Potential Supply Volts	No-Signal <sub>1</sub> Plate Milli-amperes	Grid Bias in Volts	Plate-to-Plate Load Resistance Ohms	Grid-to-Grid Peak Signal Volts	Peak <sub>2</sub> Driving Power Watts	Plate Current Milli-amperes	Power Output in Watts	Plate <sub>3</sub> Loss in Watts	Plate Efficiency in Per Cent	Driver Transformer Ratio
1500	50	- 60	12,000	350	20	277	302	128	70	1:1.35
2000	50	- 87	12,000	410	20	362	469	255	66	1:1.55
2500	50	-112	20,000	430	20	290	519	206	71	1:1.65
3000	50	-135	21,000	484	20	327	692	287	71	1:1.85

(A) Suggested driver, four Type 2A3 or 6A3 tubes in push-pull parallel at 250 plate volts.

<sub>1</sub>Lower no-signal plate currents will cause somewhat higher distortion.

<sub>2</sub>Instantaneous peak power in watts drawn by grid at crest of wave. Effective power is one-half this value.

<sub>3</sub>Plate loss may be slightly greater at lower signal levels.

**GAMMATRONS HAVE TANTALUM PLATES and GRIDS!**

