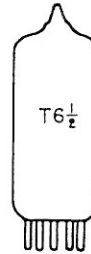
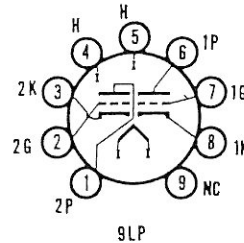


# 6CG7EH

# AF VOLTAGE AMPLIFIER

## Medium Mu Twin Triodes

Construction ..... Miniature T-6½  
 Base ..... Button 9 Pin, E9-1  
 Basing ..... 9LP  
 Outline ..... 6-3  
 Maximum Diameter ..... 0.875 In.  
 Maximum Seated Height ..... 2.375 In.  
 Maximum Overall Height ..... 2.625 In.



## ELECTRICAL DATA

### HEATER OPERATION

	12FQ7	8CG7/8FQ7	6CG7/6FQ7
Heater Voltage.....	12.6	8.4	6.3 Volts
Heater Current .....	300	450	600 Ma
Heater Warm-up Time .....	11	11	11 Seconds
Maximum Heater-Cathode Voltage			
Heater Negative with Respect to Cathode			
Total DC and Peak.....			200 Volts
Heater Positive with Respect to Cathode			
DC .....			100 Volts
Total DC and Peak.....			200 Volts

### DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

	Section No. 1	Section No. 2
Grid to Plate .....	3.6	3.8 Pf
Input: g to (h + k) .....	2.4	2.4 Pf
Output: p to (h + k) .....	0.34	0.26 Pf
Plate of Section No. 1 to Plate of Section No. 2 .....	1.0	Pf

### RATINGS (Design Maximum Rating System)

	Class A1 Amplifier
DC Plate Voltage (Max.) .....	330
Peak Negative Pulse Grid Voltage (Max.) .....	—
Positive Grid Voltage (Max.) .....	0
Plate Dissipation (?)	
Each Plate (Max.).....	4
Both Plates (Max.).....	5.7
Average Cathode Current (Max.).....	22
Peak Cathode Current (Max.) .....	—
Grid Circuit Resistance	
Fixed Bias (Max.) .....	1.0
Self Bias (Max.) .....	—

### CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage .....	90	250 Volts
Grid No. 1 Voltage .....	0	-8 Volts
Plate Current .....	10	9 Ma
Transconductance .....	3000	2600 μmhos
Amplification Factor .....	20	20
Plate Resistance (Approx.) .....	6700	7700 Ohms
Grid Voltage for Ib = 10 μa (Approx.) .....	-7	-18 Volts
Plate Current at Ec = -12.5 Vdc. ....	—	1.3 Ma