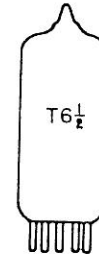
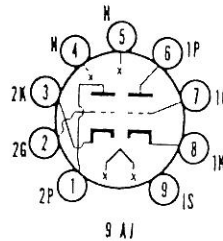


# Electro-Harmonix

<b>RF AMPLIFIER AND MIXER</b>	<b>6AQ8EH/ECC85</b>
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## High Mu Twin Triode

Construction ..... Miniature T-6½  
 Base ..... Button 9 Pin, E9-1  
 Basing<sup>(1,2)</sup> ..... 9AJ  
 Outline ..... 6-2  
 Maximum Diameter ..... 0.875 In.  
 Maximum Seated Height ..... 1.937 In.  
 Maximum Overall Height ..... 2.187 In.



## ELECTRICAL DATA

### HEATER OPERATION

	9AQ8	6AQ8/ECC85
Heater Voltage.....	9.0	6.3 Volts
Heater Current .....	300	435 Ma
Maximum Heater-Cathode Voltage .....	90	90 Volts

### DIRECT INTERELECTRODE CAPACITANCES

	Section No. 1	Section No. 2
Grid to Plate .....	1.5	1.5 Pf
Input: g to (k + h + IS) .....	3.0	3.0 Pf
Output: p to (k + h + IS) .....	1.2	1.2 Pf
<b>RATINGS (Design Center Rating System) (Each Section)</b>		
Plate Voltage (Max.) .....		300 Volts
Plate Dissipation (Max.) .....		2.5 Watts
Cathode Current (Max.) .....		15 Ma
Negative Grid Voltage (Max.) .....		100 Volts
Grid Circuit Resistance (Max.) .....		1.0 Megohms

### CHARACTERISTICS AND TYPICAL OPERATION

	R-F Amp		Autodyne Osc/Mixer
Plate Supply Voltage.....	—	250	250 Volts
Plate Dropping Resistor .....	—	1800	12,000 Ohms
Plate Voltage .....	250	230	— Volts
Grid Voltage .....	-2.3	-2.0	— Volts
Cathode Resistor .....	—	200	— Ohms
Grid Leak Resistor.....	—	—	1.0 Megohms
Oscillator Voltage (RMS).....	—	—	3 Volts
Plate Current .....	10	10	5.2 Ma
Transconductance .....	5900	6000	— μmhos
Conversion Transconductance .....	—	—	2300 μmhos
Amplification Factor .....	57	—	—
Plate Resistance.....	—	9700	22,000 Ohms
Input Resistance at 100 MHz .....	—	6000	15,000 Ohms
Equivalent Noise Resistance .....	—	500	— Ohms

### NOTES:

- (1) Section No. 1 connects to Pins 6, 7, and 8.
- (2) An internal shield is connected to Pin No. 9 to provide isolation between the two sections.