# 6C8-G

# TWIN-TRIODE AMPLIFIER

| | | | |
|---|---|---|---|
| Heater ■ | Coated Unipotential Cathodes | | |
| Voltage | 6.3 | | a-c or d-c volts |
| Current | 0.3 | | amp. |

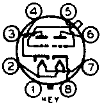
Direct Interelectrode Capacitances (Approx.):

| | *Triode Unit $T_1$* | *Triode Unit $T_2$* | | ← |
|---|---|---|---|---|
| Grid to Plate | 2.6 | 1.8 | μμf | |
| Grid to Cathode | 2.6 | 1.3 | μμf | |
| Plate to Cathode | 2.0 | 2.2 | μμf | |
| Grid to Grid | 0.1 | | μμf | |
| Plate to Plate | 2.0 | | μμf | |

| | | |
|---|---|---|
| Overall Length | 4-7/32" to 4-15/32" | |
| Seated Height | 3-21/32" to 3-29/32" | ← |
| Maximum Diameter | 1-9/16" | |
| Bulb | ST-12 | |
| Cap | Skirted Miniature, Style A | |
| Base | Small Shell Octal 8-Pin | |

Pin 1 – No Connection
Pin 2 – Heater
Pin 3 – Plate (Triode $T_2$)
Pin 4 – Cathode (Triode $T_2$)
Pin 5 – Grid (Triode $T_1$)

Pin 6 – Plate (Triode $T_1$)
Pin 7 – Heater
Pin 8 – Cathode (Triode $T_1$)
Cap – Grid (Triode $T_2$)



BOTTOM VIEW (G-8G)

Mounting Position: Any

## EACH TRIODE UNIT

| | | | |
|---|---|---|---|
| Plate Voltage | 250 max. | volts | |
| Grid Voltage | 0 min. | volts | ← |
| Plate Dissipation | 1.0 max. | watt | ← |

*Characteristics – Class $A_1$ Amplifier:*

| | | |
|---|---|---|
| Plate | 250 | volts |
| Grid | -4.5 | volts |
| Amp. Fact. | 36 | |
| Plate Res. | 22500 | ohms |
| Transcond. | 1600 | μmhos |
| Plate Cur. | 3.2 | ma. |

*Typical Operation – Resistance-Coupled Amplifier:*

See RESISTANCE-COUPLED AMPLIFIER CHART.

■ In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.

← Indicates a change.

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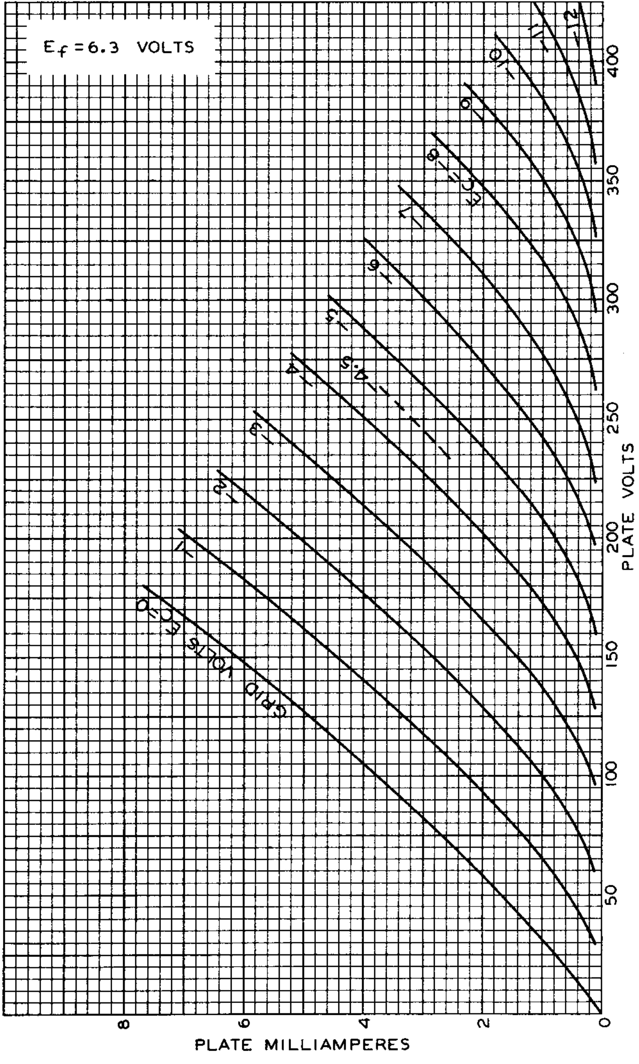
# AVERAGE PLATE CHARACTERISTICS
## EACH TRIODE UNIT



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