DESCRIPTION
The 5694 is a heater-cathode type, high mu, double triode amplifier tube. Its principal application is in communication equipment as a general purpose voltage amplifier, class B power amplifier, or low frequency oscillator. The electrical characteristics are similar to the type 6N7G. Each of the two cathodes are connected to separate base pins. Long aging schedules are used in the manufacture of this type to produce stable characteristics and dependable life.

MECHANICAL DATA
ENVIRONMENT: ST-14 Glass
BASE: Medium Shell Octal B-Pin
TERMINAL CONNECTIONS: (JEDEC Designation BCS)
- Pin 1 Cathode, Unit #2
- Pin 2 Heater
- Pin 3 Plate, Unit #2
- Pin 4 Grid, Unit #2
- Pin 5 Grid, Unit #1
- Pin 6 Plate, Unit #1
- Pin 7 Heater
- Pin 8 Cathode, Unit #1
MOUNTING POSITION: Any

ELECTRICAL DATA
DESIGN CENTER MAXIMUM RATINGS:
- Heater Voltage (ac or dc) 6.3 volts
- Plate Voltage 300 volts
- Plate Dissipation, per Plate 5.5 watts
- Peak Plate Current, per Plate 120 ma.

CHARACTERISTICS AND TYPICAL OPERATION - CLASS A1 AMPLIFIER - TRIODES IN PARALLEL:
- Heater Voltage (ac or dc) 6.3 6.3 volts
- Heater Current 0.8 0.8 amp.
- Plate Voltage 250 294 volts
- Grid Voltage -5 -6 volts
- Amplification Factor 35 35
- Plate Resistance 11300 11000 ohms
- Transconductance 3100 3200 μmhos
- Plate Current 6 7 ma.

CHARACTERISTICS AND TYPICAL OPERATION - CLASS B AMPLIFIER:
- Heater Voltage (ac or dc) 6.3 volts
- Heater Current 0.8 amp.
- Grid Circuit Impedance (at 400 cycles, per Grid) 516 ohms
- Plate Supply Impedance 1000 ohms
- No-Signal Plate Voltage 300 volts
- Grid Voltage 0 volts
- No-Signal Plate Current, per Plate 17.5 ma.
- Effective Load Resistance (P to P) 6000 ohms
- Max. Signal Peak Voltage, per Grid 41 volts
- Max. Signal Plate Current, per Plate 35 ma.
- Peak Grid Current, per Grid 22 ma.
- Total Harmonic Distortion 8 percent
- Third Harmonic Distortion 7.5 percent
- Fifth Harmonic Distortion 2.5 percent
- Max. Signal Power Output 10 watts

*Values are for two units.