



DOUBLE TRIODE

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

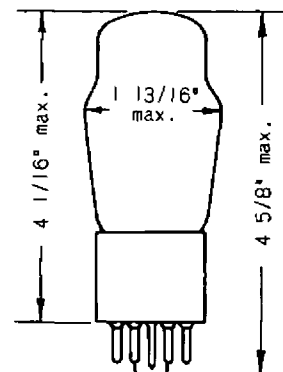
ENVELOPE: ST-14 Glass

BASE: Medium Shell Octal 8-Pin

TERMINAL CONNECTIONS: (JEDEC Designation 8CS)

Pin 1 Cathode, Unit #2	Pin 5 Grid, Unit #1
Pin 2 Heater	Pin 6 Plate, Unit #1
Pin 3 Plate, Unit #2	Pin 7 Heater
Pin 4 Grid, Unit #2	Pin 8 Cathode, Unit #1

MOUNTING POSITION: Any



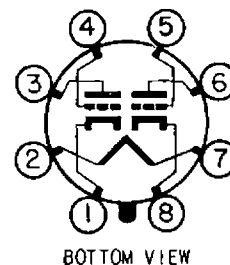
ELECTRICAL DATA

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	125 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 μ mhos
Plate Current	6	7 ma.



BOTTOM VIEW

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)	8000 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.



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