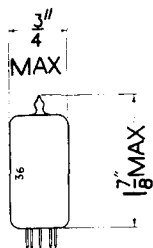
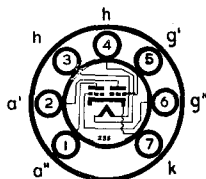


Current Equipment Type



TYPE 6J6

DOUBLE TRIODE



The BRIMAR 6J6 is a miniature double triode with a common cathode and may be used as a mixer or R.F. oscillator and in the latter application will produce a power output of 3.5 watts at frequencies up to 50 Mc/s. It is useful as a mixer up to 600 Mc/s.

RATINGS

Heater Voltage	...	...	...	...	...	6.3 volts
Heater Current	...	...	...	...	...	0.45 amps.
Anode Voltage	...	...	...	...	...	300 volts max.
Anode Dissipation	...	...	...	...	...	1.5 watts max.
Anode Input power as an R.F. Amplifier or Oscillator	...	...	...	...	...	4.5 watts max.
Anode Current	...	...	...	...	...	15 mA max.
Grid Voltage	...	...	...	...	...	0 volts max.
Grid Voltage	...	...	...	...	...	—40 volts min.
Grid Current	...	...	...	...	...	8 mA max.
Grid Circuit Resistance with Cathode Bias (Fixed Bias not recommended)	...	...	...	...	...	0.5 Megohms max.
Heater to Cathode Voltage	...	...	...	...	...	100 volts max.

OPERATING CHARACTERISTICS

Anode Voltage	...	...	...	...	...	100 volts
Cathode Bias Resistor	...	...	...	...	...	50 ohms
Anode Current	...	...	...	...	...	8.5 mA
Mutual Conductance	...	...	...	...	...	5.3 mA/V
Amplification Factor	...	...	...	...	...	38
Anode Resistance	...	...	...	...	...	7,100 ohms

OPERATION AS A PUSH-PULL R.F. AMPLIFIER OR OSCILLATOR UP TO 50 Mc/s

Anode Voltage	...	...	...	...	...	150 volts
Grid Voltage *	...	...	...	...	...	—10 volts
Anode Current, Total	...	...	...	...	...	30 mA
Grid Current, Total	...	...	...	...	...	16 mA
Grid Driving Power	...	...	...	...	...	0.35 watts approx.
Output Power	...	...	...	...	...	3.5 watts

* From fixed bias supply, grid resistor of 625 ohms, or cathode resistor of 220 ohms.

INTER-ELECTRODE CAPACITANCES *

Grid to Anode	...	...	...	...	...	1.6 pF
Grid to Cathode and Heater	...	...	...	...	...	2.2 pF
Anode to Cathode and Heater	...	...	...	...	...	0.4 pF

* Measured without external shield

