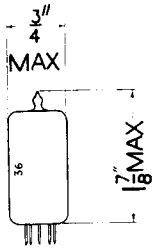
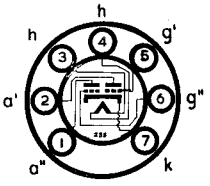
Current Equipment Type



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

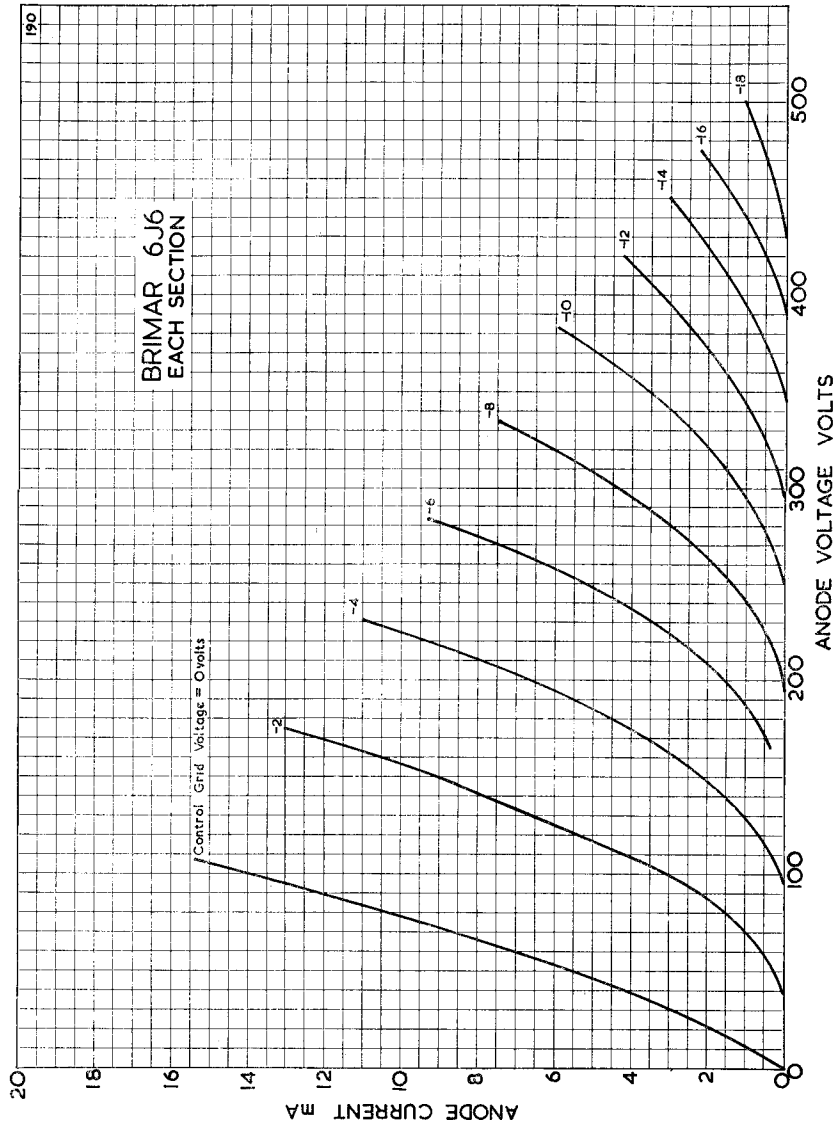
Anode Voltage	150 volts
Grid Voltage *	—10 volts
Anode Current, Total	30 mA
Grid Current, Total	16 mA
Grid Driving Power	0.35 watts approx.
Output Power	3.5 watts

** 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*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BRIMAR 6J6
EACH SECTION
Control Grid Voltage = 0volts
-2
-4
-6
-8
-10
-12
-14
-16
-18
ANODE CURRENT mA
0
2
4
6
8
10
12
14
16
18
20
ANODE VOLTAGE VOLTS
0
100
200
300
400
500