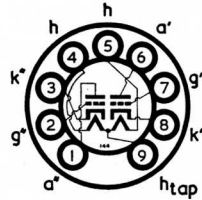


TYPE 6060
TRUSTWORTHY
MINIATURE HIGH SLOPE
DOUBLE TRIODE



The separate cathode connections and tapped heater features enable the 6060 to be used in a variety of applications. As a frequency changer it will operate at frequencies up to 500 Mc/s.

RATINGS

| | | | | | |
|-------------------------------------|--------|-----|--------|------|------------|
| Heater Voltage | | 6.3 | } or { | 12.6 | volts |
| Heater Current | | 0.3 | | 0.15 | amp. |
| Anode Voltage | | 300 | | | volts max. |
| Anode Dissipation (each section) | | 2.5 | | | watts |
| D.C. Cathode Current (each section) | | 20 | | | mA max. |
| Anode Voltage (zero anode current) | | 550 | | | volts max. |

OPERATING CHARACTERISTICS (EACH SECTION)

$V_a = 250$ V, $V_g = 0$ V, $R_k = 200$ ohms, $C_k = 1,000$ μ F, $V_h = 12.6$ V (series connection).

| | Min. | Bogey | Max. |
|---|------|--------|----------|
| Anode Current | 7 | 10 | 14 mA |
| Anode Impedance | — | 10,900 | — ohms |
| Mutual Conductance | 4.5 | 5.5 | 6.5 mA/V |
| Amplification Factor | 50 | 60 | 70 |
| Grid Voltage (for Anode Current = 10 μ A) | — | — | —20volts |

OPERATION AS FREQUENCY CHANGER

| | | | |
|---------------------------|--------|--------|-------|
| <i>Oscillator Section</i> | | | |
| Anode Supply Voltage | | 250 | volts |
| Anode Decoupling Resistor | | 1,000 | ohms |
| Grid Resistor | | 10,000 | ohms |

| | | | |
|---------------------------|--------|------------|-------|
| <i>Mixed Section</i> | | | |
| Anode Supply Voltage | | 250 | volts |
| Anode Decoupling Resistor | | 1,000 | ohms |
| Cathode Bias Resistor | | 680 | ohms |
| *Conversion Conductance | | 2.5 | mA/V |
| †Heterodyne Voltage | | (see note) | |

* Exact value depends on circuit constants and input impedance considerations.

† Heterodyne voltage should be just less than that required to cause grid current in the mixer section.

INTER-ELECTRODE CAPACITANCES**

| | | | |
|-----------------------|--------|------|----|
| Anode to Anode (max.) | | 0.33 | pF |
| Each Section | | | |
| C in (nom.) | | 2.5 | pF |
| C out (nom.) | | 0.4 | pF |
| Ca-g (nom.) | | 1.6 | pF |

** Measured with no external shield.

Type 6060 is a commercial equivalent to CV4024.

