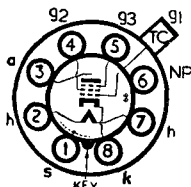
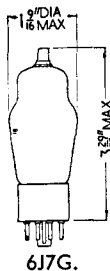


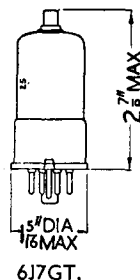
# Replacement Types

## TYPES 6J7G, 6J7GT (OCTAL BASE)

6J7G/GT



Note.—Type 6J7GT, has Pin 1 connected to metal shell.



## R.F. PENTODES

The BRIMAR types 6J7G, 6J7GT are indirectly heated pentode amplifier valves suitable for use in A.C., A.C./D.C. or car radio equipment. With the exception of their overall dimensions the two types are identical.

| RATINGS                  |     |     |     |     |                 |
|--------------------------|-----|-----|-----|-----|-----------------|
| Heater Voltage           | ... | ... | ... | ... | 6.3 volts       |
| Heater Current           | ... | ... | ... | ... | 0.3 amp.        |
| Anode Voltage            | ... | ... | ... | ... | 300 volts max.  |
| Anode Dissipation        | ... | ... | ... | ... | 0.75 watts max. |
| Screen ( $g_2$ ) Voltage | ... | ... | ... | ... | 125 volts max.  |
| Screen Dissipation       | ... | ... | ... | ... | 0.1 watts max.  |

### OPERATING CHARACTERISTICS [ $g_3$ connected to Cathode]

|                                |     |     |     |     |      |       |
|--------------------------------|-----|-----|-----|-----|------|-------|
| Anode Voltage                  | ... | ... | ... | 100 | 250  | volts |
| Anode Current                  | ... | ... | ... | 2.0 | 2.0  | mA    |
| Screen Voltage                 | ... | ... | ... | 100 | 100  | volts |
| Screen Current                 | ... | ... | ... | 0.5 | 0.5  | mA    |
| Control Grid ( $g_1$ ) Voltage | ... | ... | ... | -3  | -3   | volts |
| Anode Impedance                | ... | ... | ... | 1.0 | 1.5  | meg.  |
| Mutual Conductance             | ... | ... | ... | 1.1 | 1.25 | mA/V  |
| Control Grid Bias              | ... | ... | ... | -7  | -7   | volts |

(For Anode current cut-off)

### OPERATION AS RESISTANCE COUPLED AMPLIFIER ( $g_3$ connected to Cathode)

|                                 |     |       |       |       |       |
|---------------------------------|-----|-------|-------|-------|-------|
| Anode and Screen Supply Voltage | ... | 100   | 200   | 300   | volts |
| Anode Load Resistor             | ... | 0.25  | 0.25  | 0.25  | meg.  |
| Screen Series Resistor          | ... | 1.0   | 1.0   | 1.2   | meg.  |
| Cathode Bias Resistor           | ... | 2,500 | 1,500 | 1,200 | ohms  |
| Peak Output                     | ... | 35    | 70    | 100   | volts |
| Voltage Gain                    | ... | 90    | 120   | 140   |       |

### OPERATION AS A TRIODE ( $g_2$ connected to Anode)

For operating characteristics see type 6C5G.

### OPERATION AS ANODE BEND DETECTOR ( $g_3$ connected to Cathode)

|                        |     |     |     |        |        |        |
|------------------------|-----|-----|-----|--------|--------|--------|
| Anode Supply Voltage   | ... | ... | ... | 100    | 250    | volts  |
| Anode Load Resistor    | ... | ... | ... | 0.25   | 0.5    | meg.   |
| Screen Series Resistor | ... | ... | ... | 2.5    | 4.7    | meg.   |
| Cathode Bias Resistor  | ... | ... | ... | 10,000 | 10,000 | ohms   |
| R.M.S. Input           | ... | ... | ... | 1.6    | 1.4    | volts* |
| Peak Output            | ... | ... | ... | 17     | 17     | volts* |

\* For R.M.S. Input modulated 20 per cent.

### INTER-ELECTRODE CAPACITANCES †

|                       |     |     |     |     |     |              |
|-----------------------|-----|-----|-----|-----|-----|--------------|
| Input                 | ... | ... | ... | ... | ... | 4.6 pF       |
| Output                | ... | ... | ... | ... | ... | 12 pF        |
| Control Grid to Anode | ... | ... | ... | ... | ... | .007 pF max. |

† With close fitting shield connected to Cathode.

For characteristic curve refer to type 6BR7