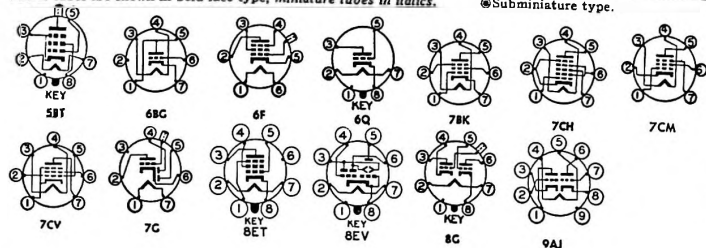


| Tube Type     | Classification by Construction | Base Connections | Out-line Dwg | Type Cathode | Filament Volts | Filament Amp | Max Plate Volts | Max Screen Volts | Capacitance in Micromicrofarads |                   |            |
|---------------|--------------------------------|------------------|--------------|--------------|----------------|--------------|-----------------|------------------|---------------------------------|-------------------|------------|
|               |                                |                  |              |              |                |              |                 |                  | Input                           | Output            | Grid-plate |
| 6BY6          | Dual-Control Heptode           | 7CH              | 5-2          | Htr          | 6.3            | 0.3          | 300             | 150              | —                               | —                 | —          |
| 6BY7          | Remote-Cutoff RF Pentode       | 9AQ              | 6-3          | Htr          | 6.3            | 0.3          | 250             | 250              | 7.2▲                            | 3.7▲              | 0.007▲     |
| 6BZ6          | Semi-Remote-Cutoff RF Pentode  | 7CM              | 5-2          | Htr          | 6.3            | 0.3          | 300             | 150              | 7.5                             | 2.8               | 0.015      |
| 6BZ7          | High-Frequency Twin Triode     | 9AJ              | 6-2          | Htr          | 6.3            | 0.4          | 250             | —                | 2.5 <sub>1</sub>                | 1.35 <sub>1</sub> | 1.15       |
| 6C4           | Medium-Mu Triode               | 6BG              | 5-2          | Htr          | 6.3            | 0.15         | 300             | —                | 1.8▲                            | 1.3▲              | 1.6▲       |
| 6C5<br>6C5-GT | Medium-Mu Triode               | 6Q               | 8-1<br>9-12  | Htr          | 6.3            | 0.3          | 300             | —                | 3.0<br>4.4                      | 11.0<br>12.0      | 2.0<br>2.2 |
| 6C6           | Sharp-Cutoff Pentode           | 6F               | 12-2         | Htr          | 6.3            | 0.3          | 300             | 125              | 5.0▲                            | 6.5▲              | 0.007▲     |
| 6C7           | Duplex-Diode Medium-Mu Triode  | 7G               | 12-2         | Htr          | 6.3            | 0.3          | 250             | —                | —                               | —                 | —          |
| 6C8-G         | Medium-Mu Twin Triode          | 8G               | 12-8         | Htr          | 6.3            | 0.3          | 250             | —                | —                               | —                 | —          |
| 6CA6          | Beam Power Amplifier           | 7CV              | 5-3          | Htr          | 6.3            | 1.2          | 130             | 130              | 15▲                             | 9▲                | 0.5▲       |
| 6CA7          | Power Amplifier Pentode        | 8ET              | T-X          | Htr          | 6.3            | 1.5          | 800             | 425              | —                               | —                 | —          |
| 6CB6          | Sharp-Cutoff RF Pentode        | 7CM              | 5-2          | Htr          | 6.3            | 0.3          | 300             | 150              | 6.5▲                            | 2.0▲              | 0.020▲     |
| 6CD6-G        | Beam Power Amplifier           | 5BT              | 16-5         | Htr          | 6.3            | 2.5          | 700             | 175              | 25▲                             | 9.5▲              | 0.6▲       |
| 6CD7          | Electron-Ray Indicator         | 8EV              | T-X          | Htr          | 6.3            | 0.2          | 300             | —                | Max target voltage = 300 v      |                   |            |
| 6CF6          | Sharp-Cutoff RF Pentode        | 7CM              | 5-2          | Htr          | 6.3            | 0.3          | 300             | 150              | 6.5▲                            | 2.0▲              | 0.02▲      |
| 6CG6          | Remote-Cutoff Pentode          | 7BK              | 5-2          | Htr          | 6.3            | 0.3          | 300             | 150              | 5.0                             | 5.0               | 0.008      |
| 6CH6          | RF Pentode                     | 9BA              | 6-3          | Htr          | 6.3            | 0.75         | 275             | 275              | 14▲                             | 5.0▲              | 0.25▲      |
| 6CJ6          | Power Amplifier Pentode        | 9AS              | T-X          | Htr          | 6.3            | 1.05         | 300             | 300              | —                               | —                 | —          |
| 6CK6          | Power Amplifier Pentode        | 9AR              | 6-4          | Htr          | 6.3            | 0.71         | 300             | 300              | 11.2▲                           | 6.0▲              | 0.1▲       |
| 6CL6          | Power Amplifier Pentode        | 9BV              | 6-3          | Htr          | 6.3            | 0.65         | 300             | 150              | 11▲                             | 5.5▲              | 0.12▲      |

Model Tubes are shown in bold-face type, miniature tubes in *italics*.

③ Subminiature type.



| Service                                | Plate Volts                                                                                                                                                                                                                                       | Screen Volts    | Neg Grid Volts       | Plate Milliamps    | Screen Milliamps | R <sub>p</sub> Ohms | G <sub>m</sub> μmhos | μ Factor   | Load for Rated Output, Ohms                             | Power Output, Watts | Tube Type     |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------|--------------------|------------------|---------------------|----------------------|------------|---------------------------------------------------------|---------------------|---------------|
| Gated Amplifier                        | 250<br>10                                                                                                                                                                                                                                         | 100<br>25       | 2.5<br>0             | 6.5<br>1.4         | 9<br>3.5         | —                   | 1,900                | —          | E <sub>s</sub> = -2.5 volts<br>E <sub>s</sub> = 0 volts | —                   | 6BY6          |
| Class A Amplifier                      | 250                                                                                                                                                                                                                                               | 100             | 2.0                  | 10                 | 2.5              | 500,000             | 6,000                | —          | —                                                       | —                   | 6BY7          |
| Class A Amplifier                      | 200                                                                                                                                                                                                                                               | 150             | R <sub>k</sub> = 180 | 11                 | 2.6              | 600,000             | 6,100                | —          | —                                                       | —                   | 6BZ6          |
| Class A Amplifier                      | 150                                                                                                                                                                                                                                               | —               | R <sub>k</sub> = 220 | 10                 | —                | 5,600               | 6,800                | 38         | —                                                       | —                   | 6BZ7          |
| Class A Amplifier<br>Class C Amplifier | 250<br>100<br>300                                                                                                                                                                                                                                 | —<br>—<br>—     | 8.5<br>0<br>27       | 10.5<br>11.8<br>25 | —<br>—<br>—      | 7,700<br>6,250<br>— | 2,200<br>3,100<br>—  | 17<br>19.5 | —<br>—<br>—                                             | —<br>5.5            | 6C4           |
| Class A Amplifier                      | 250                                                                                                                                                                                                                                               | —               | 8.0                  | 8.0                | —                | 10,000              | 2,000                | 20         | —                                                       | —                   | 6C5<br>6C5-GT |
| Class A Amplifier                      | 250                                                                                                                                                                                                                                               | 100             | 3.0                  | 2.0                | 0.5              | 1,000,000           | 1,225                | —          | —                                                       | —                   | 6C6           |
| Class A Amplifier                      | 250                                                                                                                                                                                                                                               | —               | 9.0                  | 5.5                | —                | 16,000              | 1,250                | 20         | —                                                       | —                   | 6C7           |
| Class A Amplifier                      | 250                                                                                                                                                                                                                                               | —               | 4.5                  | 3.2                | —                | 22,500              | 1,600                | 36         | —                                                       | —                   | 6C8-G         |
| Class A Amplifier                      | 125<br>110                                                                                                                                                                                                                                        | 125<br>110      | 4.5<br>4.0           | 37†<br>32†         | 4.0†<br>3.5†     | 15,000<br>16,000    | 9,200<br>8,100       | —          | 4,500<br>3,500                                          | 1.5<br>1.1          | 6CA6          |
| Class A Amplifier                      | 250                                                                                                                                                                                                                                               | 250             | 13.5                 | 100                | 15               | 15,000              | 11,000               | —          | 2,000                                                   | 11                  | 6CA7          |
| Class A Amplifier                      | 200                                                                                                                                                                                                                                               | 150             | R <sub>k</sub> = 180 | 9.5                | 2.8              | 600,000             | 6,200                | —          | —                                                       | —                   | 6CB6          |
| Horizontal Deflection Amplifier        | 175<br>60<br>100                                                                                                                                                                                                                                  | 175<br>100<br>0 | 30<br>0<br>230       | 75<br>20<br>21     | 5.5              | 7,200               | 7,700                | —          | —                                                       | —                   | 6CD6-G        |
| Tuning Indicator                       | Plate voltage = 250 v thru 1 meg to each plate; target voltage = 250 v (E <sub>s</sub> = -16, shadow angle of sector 2 minimum) (E <sub>s</sub> = -5, shadow angle of sector 1 minimum) (E <sub>s</sub> = 0, shadow angle of both sectors = 180°) |                 |                      |                    |                  |                     |                      |            |                                                         |                     | 6CD7          |
| Class A Amplifier                      | 200                                                                                                                                                                                                                                               | 150             | R <sub>k</sub> = 180 | 9.5                | 2.8              | 600,000             | 6,200                | —          | —                                                       | —                   | 6CF6          |
| Class A Amplifier                      | 250                                                                                                                                                                                                                                               | 150             | 8.0                  | 9.0                | 2.3              | 720,000             | 2,000                | —          | —                                                       | —                   | 6CG6          |
| Class A Amplifier                      | 250                                                                                                                                                                                                                                               | 250             | 4.5                  | 40                 | 6.0              | 50,000              | 11,000               | —          | —                                                       | —                   | 6CH6          |
| Horizontal Deflection Amplifier        | 250<br>250                                                                                                                                                                                                                                        | 250<br>250      | 38.5<br>32           | 32<br>2.4          | 2.4              | 15,000              | 4,600                | —          | —                                                       | —                   | 6CJ6          |
| Class A Amplifier                      | 250                                                                                                                                                                                                                                               | 250             | 5.5                  | 36                 | 5                | 130,000             | 10,000               | —          | —                                                       | —                   | 6CK6          |
| Class A Amplifier                      | 250                                                                                                                                                                                                                                               | 150             | 3.0                  | 30†                | 7.0†             | 150,000             | 11,000               | —          | 7,500                                                   | 2.8                 | 6CL6          |

▲ Without external shield.

⬆ Maximum.

‡ Approximate.

§ Section 1.

◆ Per section.

• Minimum.

† Zero signal.

‡ Plate supply voltage.

— The duration of the pulse voltage must not exceed 15 percent of one scanning cycle.

③ Absolute maximum rating.

