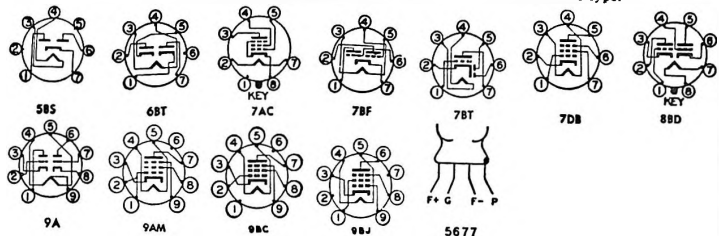


| Tube Type | Classification by Construction                      | Base Connections | Outline Dwg | Type Cathode | Filament Volts | Filament Amp  | Max Plate Volts | Max Screen Volts | Capacitance in Micromicrofarads |                  |               |
|-----------|-----------------------------------------------------|------------------|-------------|--------------|----------------|---------------|-----------------|------------------|---------------------------------|------------------|---------------|
|           |                                                     |                  |             |              |                |               |                 |                  | Input                           | Output           | Grid-plate    |
| 6042      | Medium-Mu Twin Triode                               | 8BD              | 9-3         | Htr          | 25.0           | 0.15          | 250             | —                | —                               | —                | —             |
| 6045      | Medium-Mu Twin Triode                               | 7BF              | 5-2         | Htr          | 6.3            | 0.35          | 330             | —                | 2.0 ▲                           | 0.45 ▲<br>0.34 ▲ | 1.3 ▲         |
| 6046      | Beam Power Amplifier (Special 25L6-GT)              | 7AC              | 9-11        | Htr          | 25.0           | 0.3           | 200             | 125              | —                               | —                | —             |
| 6050      | High-Frequency Medium-Mu Triode                     | 5677             | 2-1         | Pil          | 1.25 DC        | 0.12          | 135             | —                | 1.3                             | 3.4              | 1.4           |
| 6067      | High-Mu Twin Triode (Special 12AX7)                 | 9A               | 6-2         | Htr          | 12.6<br>6.3    | 0.15<br>0.3   | 300             | —                | 1.6 ▲                           | 0.46 ▲<br>0.34 ▲ | 1.7 ▲         |
| 6068      | Twin Diode (Special 6AL5)                           | 6BT              | 5-2         | Htr          | 6.3            | 0.3           | —               | —                | —                               | —                | —             |
| 6069      | Sharp-Cutoff RF Pentode                             | 9BC              | 6-2         | Htr          | 6.3            | 0.15          | 300             | 125              | 4.25 ▲                          | 4.0 ▲            | 0.01 ▲        |
| 6060      | High-Frequency Twin Triode (Special 12AT7)          | 9A               | 6-2         | Htr          | 12.6<br>6.3    | 0.15<br>0.3   | 350             | —                | 2.25 ▲                          | 0.4 ▲            | 1.6 ▲         |
| 6061      | Beam Power Amplifier                                | 9AM              | 6-3         | Htr          | 6.3            | 0.45          | 315             | 285              | —                               | —                | —             |
| 6063      | Full-Wave High-Vacuum Rectifier (Special 6X4)       | 5BS              | 5-3         | Htr          | 6.3            | 0.6           | —               | —                | —                               | —                | —             |
| 6064      | RF Pentode                                          | 7DB              | 5-2         | Htr          | 6.3            | 0.3           | 250             | 250              | 7.8                             | 3.9              | 0.01 ▲        |
| 6065      | Remote-Cutoff RF Pentode                            | 7DB              | 5-2         | Htr          | 6.3            | 0.2           | 250             | 250              | 4.5                             | 7.0              | 0.007 ▲       |
| 6066      | Duplex Diode High-Mu Triode (Special 6AT6)          | 7BT              | 5-2         | Htr          | 6.3            | 0.3           | 300             | —                | —                               | —                | —             |
| 6067      | Medium-Mu Twin Triode (Special 12AU7)               | 9A               | 6-2         | Htr          | 12.6<br>6.3    | 0.15<br>0.3   | 300             | —                | 1.0 ▲                           | 0.51 ▲<br>0.35 ▲ | 1.5 ▲         |
| 6072      | Twin Triode (Special 12AY7)                         | 9A               | 6-2         | Htr          | 12.6<br>6.3    | 0.175<br>0.35 | 300             | —                | 1.4 ▲                           | 0.51 ▲<br>0.42 ▲ | 1.5 ▲         |
| 6080      | Low-Mu Twin Triode Power Amplifier (Special 6AS7-G) | 8BD              | T-X         | Htr          | 6.3            | 2.5           | 250             | —                | 6.0 ▲                           | 2.2 ▲            | 8.0 ▲         |
| 6082      | Low-Mu Twin Triode Power Amplifier                  | 8BD              | T-X         | Htr          | 26.5           | 0.6           | 250             | —                | 6.0 ▲                           | 2.2 ▲            | 8.0 ▲         |
| 6084      | AF Pentode                                          | 9BJ              | 6-3         | Htr          | 6.3            | 0.3           | 300             | 200              | 5.1                             | 7.1              | 0.025 ▲       |
| 6085      | Medium-Mu Twin Triode                               | 9A               | 6-3         | Htr          | 12.6<br>6.3    | 0.3<br>0.6    | 300             | —                | 2.81<br>2.71                    | 1.21<br>1.31     | 2.61<br>2.751 |

Metal tubes are shown in bold-face type, miniature tubes in italics.

③ Subminiature type.



| Service             | Plate Volts                                                                                                                                                     | Screen Volts | Ng Grid Volts          | Plate Milli-amperes | Screen Milli-amperes | R <sub>p</sub> Ohms | G <sub>m</sub> μmhos | Factor | Load for Rated Output, Ohms | Power Output, Watts | Tube Type |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------|---------------------|----------------------|---------------------|----------------------|--------|-----------------------------|---------------------|-----------|
| Class A Amplifier   | 250                                                                                                                                                             | —            | 9                      | 6.5                 | —                    | 9,100               | 2,200                | 20     | —                           | —                   | 6042      |
| Class A Amplifier   | 100                                                                                                                                                             | —            | R <sub>k</sub> = 50 Ω  | 9.0                 | —                    | 5,900               | 5,400                | 38     | —                           | —                   | 6045      |
| Class A Amplifier   | 200                                                                                                                                                             | 125          | R <sub>k</sub> = 180 Ω | 46†                 | 2.2†                 | 28,000              | 8,000                | —      | 1,000                       | 3.8                 | 6046      |
| Relay Energizer     | 110<br>115                                                                                                                                                      | 110<br>115   | 7.5<br>25              | 49†<br>105          | 4.0†<br>0.1‡         | 13,000              | 8,000                | —      | 2,000<br>500                | 2.1                 | —         |
| Class A Amplifier   | 135                                                                                                                                                             | —            | 5                      | 4.0                 | —                    | —                   | 1,600                | 16     | —                           | —                   | 6050      |
| Class A Amplifier   | 250                                                                                                                                                             | —            | 2                      | 1.2                 | —                    | 62,500              | 1,600                | 100    | —                           | —                   | 6067      |
| Half-Wave Rectifier | Max d-c output current per plate = 9 ma; max peak inverse voltage = 420 volts; max rms supply voltage per plate = 150 volts; max peak current per plate = 64 ma |              |                        |                     |                      |                     |                      |        |                             |                     | 6068      |
| Class A Amplifier   | 250                                                                                                                                                             | 100          | 3                      | 2.1                 | 0.6                  | 2,500,000           | 1,250                | —      | —                           | —                   | 6069      |
| Class A Amplifier   | 250                                                                                                                                                             | —            | 2                      | 10                  | —                    | 10,000              | 5,500                | 55     | —                           | —                   | 6060      |
| Class A Amplifier   | 250<br>315                                                                                                                                                      | 250<br>225   | 12.5<br>13             | 45†<br>34†          | 4.5†<br>2.2†         | 52,000<br>77,000    | 4,100<br>3,750       | —      | 5,000<br>8,500              | 4.5<br>5.5          | 6061      |
| Full-Wave Rectifier | Max d-c output current = 70 ma; max peak inverse voltage = 1250 volts; max rms supply voltage per plate = 325 volts; max peak current per plate = 210 ma        |              |                        |                     |                      |                     |                      |        |                             |                     | 6063      |
| Class A Amplifier   | 250                                                                                                                                                             | 250          | 2.0                    | 10                  | 2.5                  | 1,000,000           | 7,500                | —      | —                           | —                   | 6064      |
| Class A Amplifier   | 250                                                                                                                                                             | 200          | 2.5                    | 8.0                 | 2.1                  | 1,000,000           | 2,500                | —      | —                           | —                   | 6065      |
| Class A Amplifier   | 250                                                                                                                                                             | —            | 3.0                    | 1.0                 | —                    | 58,000              | 1,200                | 70     | —                           | —                   | 6066      |
| Class A Amplifier   | 250                                                                                                                                                             | —            | 8.5                    | 10.5                | —                    | 7,700               | 2,200                | 17     | —                           | —                   | 6067      |
| Class A Amplifier   | 250                                                                                                                                                             | —            | 4.0                    | 3.0                 | —                    | 25,000              | 1,750                | 44     | —                           | —                   | 6072      |
| DC Amplifier        | 135                                                                                                                                                             | —            | R <sub>k</sub> = 250   | 125                 | —                    | 280                 | 7,000                | 2      | —                           | —                   | 6080      |
| DC Amplifier        | 135                                                                                                                                                             | —            | R <sub>k</sub> = 250   | 125                 | —                    | 280                 | 7,000                | 2      | —                           | —                   | 6082      |
| Class A Amplifier   | 250                                                                                                                                                             | 100          | 2.0                    | 3.0                 | 0.5‡                 | 1,800,000           | 1,850                | —      | —                           | —                   | 6084      |
| Class A Amplifier   | 250                                                                                                                                                             | —            | 5.5                    | 6                   | —                    | —                   | 2,700                | 30     | —                           | —                   | 6085      |

‡ Approximate.

▲ Without external shield.

† Zero signal.

‡ Grids 3 and 5 are screen. Grid 4 is signal-

input grid.

# Conversion transconductance.

▲ Maximum.

▼ Grids 2 and 4 are screen. Grid 3 is signal-

input grid.

\* Screen supply voltage.

③ Absolute maximum rating.

‡ Plate-to-plate.

◆ Per section.

④ For both sections.

\* Minimum.

† Heater warm-up time controlled for

series string service.

‡ Plate supply voltage.

|| Input plate.

‡ The duration of the pulse voltage must

not exceed 15 percent of one scanning

cycle.

1—Section 1.

2—Section 2.

④ A resistor of 3 ohms must be put in series

with heater.