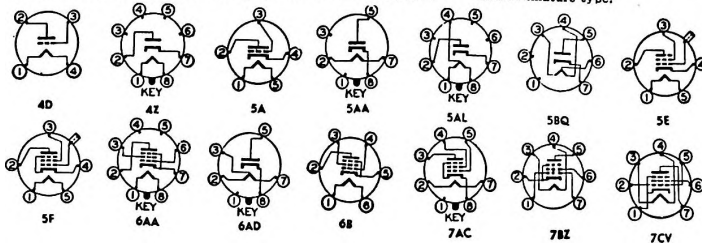


| Tube Type | Classification by Construction  | Base Connections | Out-line Dwg    | Type Cathode | Filament Volts | Filament Amp | Max Plate Volts                            | Max Screen Volts | Capacitance in Micromicrofarads |        |            |
|-----------|---------------------------------|------------------|-----------------|--------------|----------------|--------------|--------------------------------------------|------------------|---------------------------------|--------|------------|
|           |                                 |                  |                 |              |                |              |                                            |                  | Input                           | Output | Grid-plate |
| 35/51     | Remote-Cutoff RF Tetrode        | 5E               | 14-2            | Htr          | 2.5            | 1.75         | 275                                        | 90               | 5.3▲                            | 10.5▲  | 0.007<br>♣ |
| 35A5      | Beam Power Amplifier            | 6AA              | 9-31            | Htr          | 35.0           | 0.15         | 200                                        | 125              | —                               | —      | —          |
| 35B6      | Beam Power Amplifier            | 7BZ              | 5-3             | Htr          | 35.0           | 0.15         | 117                                        | 117              | 11▲                             | 6.5▲   | 0.4▲       |
| 35C6      | Beam Power Amplifier            | 7CV              | 5-3             | Htr          | 35.0           | 0.15         | 117                                        | 117              | 11▲                             | 6.5▲   | 0.4▲       |
| 35L6-GT   | Beam Power Amplifier            | 7AC              | 9-11<br>or 9-41 | Htr          | 35.0           | 0.15         | 200                                        | 125              | —                               | —      | —          |
| 35W4      | Half-Wave High-Vacuum Rectifier | 58Q              | 5-3             | Htr          | 35.0           | 0.15         | Tube Voltage Drop:<br>18 v at 200 ma d-c   |                  |                                 |        |            |
| 35Y4      | Half-Wave High-Vacuum Rectifier | 5AL              | 9-31            | Htr          | 35.0           | 0.15         | Tube Voltage Drop:<br>18 v at 200 ma d-c   |                  |                                 |        |            |
| 35Z3      | Half-Wave High-Vacuum Rectifier | 4Z               | 9-31            | Htr          | 35.0           | 0.15         | Tube Voltage Drop:<br>18 v at 200 ma d-c   |                  |                                 |        |            |
| 35Z4-GT   | Half-Wave High-Vacuum Rectifier | 5AA              | 9-11            | Htr          | 35.0           | 0.15         | Tube Voltage Drop:<br>18 v at 200 ma d-c   |                  |                                 |        |            |
| 35Z5-GT   | Half-Wave High-Vacuum Rectifier | 6AD              | 9-11<br>or 9-41 | Htr          | 35.0           | 0.15         | Tube Voltage Drop:<br>18 v at 200 ma d-c   |                  |                                 |        |            |
| 35Z6-G    | High-Vacuum Rectifier Doubler   | 7Q               | 14-3            | Htr          | 35.0           | 0.3          | Tube Voltage Drop: ♣<br>20 v at 220 ma d-c |                  |                                 |        |            |
| 36        | Sharp-Cutoff RF Tetrode         | 5E               | 12-6            | Htr          | 6.3            | 0.3          | 250                                        | 90.0             | 3.8▲                            | 9.0▲   | 0.007<br>♣ |
| 37        | Medium-Mu Triode                | 5A               | 12-5            | Htr          | 6.3            | 0.3          | 250                                        | —                | 3.5                             | 2.9    | 2.0        |
| 38        | Power Amplifier Pentode         | 5F               | 12-6            | Htr          | 6.3            | 0.3          | 250                                        | 250              | 3.5                             | 7.5    | 0.30       |
| 39/44     | Remote-Cutoff RF Pentode        | 5F               | 12-6            | Htr          | 6.3            | 0.3          | 250                                        | 90               | 3.8▲                            | 10.0▲  | 0.007<br>♣ |
| 40        | Medium-Mu Triode                | 4D               | 14-1            | Fil          | 5.0<br>DC      | 0.25         | 180                                        | —                | 2.8                             | 2.2    | 2.0        |
| 41        | Power Amplifier Pentode         | 6B               | 12-5            | Htr          | 6.3            | 0.4          | 315                                        | 285              | —                               | —      | —          |

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

♣ Subminiature type.



| Service              | Plate Volts                                                                                                                                                                                                                                                                                                                         | Screen Volts | Neg 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                                                                                                                                                                                                                                                                                                                                 | 90           | 3.0                  | 6.5                 | 2.5♣                 | 400,000               | 1,050                  | —        | —                           | —                   | 35/51     |
| Class A Amplifier    | 200                                                                                                                                                                                                                                                                                                                                 | 125          | R <sub>k</sub> = 180 | 43†                 | 2.0†                 | 34,000§               | 6,100                  | —        | 5,000                       | 3.0                 | 35A5      |
| Class A Amplifier    | 110                                                                                                                                                                                                                                                                                                                                 | 110          | 7.5                  | 40†                 | 3.0†                 | 14,000§               | 5,800                  | —        | 2,500                       | 1.5                 | 35B6      |
| Class A Amplifier    | 110                                                                                                                                                                                                                                                                                                                                 | 110          | 7.5                  | 40†                 | 3.0†                 | —                     | 5,800                  | —        | 2,500                       | 1.5                 | 35C6      |
| Class A Amplifier    | 110                                                                                                                                                                                                                                                                                                                                 | 110          | 7.5                  | 40†                 | 3.0†                 | —                     | 5,800                  | —        | 2,500                       | 1.5                 | 35C6      |
| Class A Amplifier    | 200                                                                                                                                                                                                                                                                                                                                 | 125          | R <sub>k</sub> = 180 | 43†                 | 2.0†                 | 34,000§               | 6,100                  | —        | 5,000                       | 3.0                 | 35L6-GT   |
| Class A Amplifier    | 110                                                                                                                                                                                                                                                                                                                                 | 110          | 7.5                  | 40†                 | 3.0†                 | 14,000§               | 5,800                  | —        | 2,500                       | 1.5                 | 35L6-GT   |
| Half-Wave Rectifier  | Max d-c output current = 100 ma; max peak inverse voltage = 330 volts; rms supply voltage = 117 volts; max peak current = 600 ma.<br>With panel lamp # 40 or # 47 between pins 4 and 6 and no shunting resistor, max d-c output current = 60 ma.<br>With panel lamp and 250 ohm shunting resistor (max), max d-c output = 90 ma     |              |                      |                     |                      |                       |                        |          |                             |                     | 35W4      |
| Half-Wave Rectifier  | Max d-c output current = 100 ma; max peak inverse voltage = 700 volts; max rms supply voltage = 235 volts; max peak current = 600 ma.<br>With panel lamp # 40 or # 47 between pins 1 and 4 and no shunting resistor, max d-c output current = 60 ma.<br>With panel lamp and 250 ohm shunting resistor (max), max d-c output = 90 ma |              |                      |                     |                      |                       |                        |          |                             |                     | 35Y4      |
| Half-Wave Rectifier  | Max d-c output current = 100 ma; max peak inverse voltage = 700 volts; rms supply voltage = 235 volts; max peak current = 600 ma                                                                                                                                                                                                    |              |                      |                     |                      |                       |                        |          |                             |                     | 35Z3      |
| Half-Wave Rectifier  | Max d-c output current = 100 ma; max peak inverse voltage = 700 volts; max rms supply voltage = 235 volts; max peak current = 600 ma                                                                                                                                                                                                |              |                      |                     |                      |                       |                        |          |                             |                     | 35Z4-GT   |
| Half-Wave Rectifier  | Max d-c output current = 100 ma; max peak inverse voltage = 700 volts; max rms supply voltage = 235 volts; max peak current = 600 ma.<br>With panel lamp # 40 or # 47 between pins 2 and 3 and no shunting resistor, max d-c output current = 60 ma.<br>With panel lamp and 250 ohm shunting resistor (max), max d-c output = 90 ma |              |                      |                     |                      |                       |                        |          |                             |                     | 35Z5-GT   |
| Rectifier or Doubler | Max d-c output current per plate = 110 ma; max peak inverse voltage = 700 volts; max rms supply voltage per plate = 235 volts; max peak current per plate = 660 ma                                                                                                                                                                  |              |                      |                     |                      |                       |                        |          |                             |                     | 35Z6-G    |
| Class A Amplifier    | 250                                                                                                                                                                                                                                                                                                                                 | 90           | 3.0                  | 3.2                 | 1.7♣                 | 550,000               | 1,080                  | —        | —                           | —                   | 36        |
| Class A Amplifier    | 250                                                                                                                                                                                                                                                                                                                                 | —            | 18                   | 7.5                 | —                    | 8,400                 | 1,100                  | 9.2      | —                           | —                   | 37        |
| Class A Amplifier    | 250                                                                                                                                                                                                                                                                                                                                 | 250          | 25                   | 22                  | 3.8                  | 100,000               | 1,200                  | —        | 10,000                      | 2.5                 | 38        |
| Class A Amplifier    | 250                                                                                                                                                                                                                                                                                                                                 | 90           | 3.0*                 | 5.8                 | 1.4                  | 1,000,000             | 1,050                  | —        | —                           | —                   | 39/44     |
| Class A Amplifier    | 180                                                                                                                                                                                                                                                                                                                                 | —            | 3.0                  | 0.2                 | —                    | 150,000               | 200                    | 30       | 250,000                     | —                   | 40        |
| Class A Amplifier    | 250                                                                                                                                                                                                                                                                                                                                 | 250          | 18                   | 32†                 | 5.5†                 | 90,000§               | 2,300                  | —        | 7,600                       | 3.4                 | 41        |



♣ 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.  
‡ Absolute maximum rating.  
† Plate-to-plate.  
♣ Per section.

Ⓢ 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.  
— Section 1.  
— Section 2.  
— A resistor of 3 ohms must be put in series with heater.