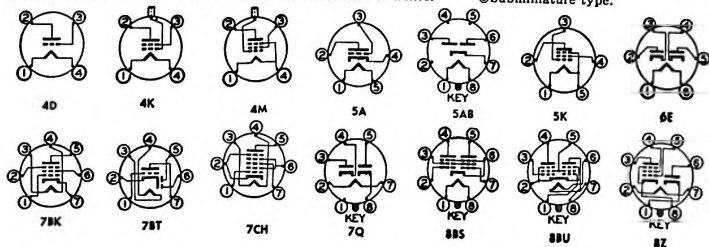


| Tube Type                   | Classification by Construction           | Base Connections | Out-line Dwg    | Type Cathode | Filament Volts | Filament Amp | Max Plate Volts                            | Max Screen Volts | Capacitance in Micromicrofarads                               |        |            |
|-----------------------------|------------------------------------------|------------------|-----------------|--------------|----------------|--------------|--------------------------------------------|------------------|---------------------------------------------------------------|--------|------------|
|                             |                                          |                  |                 |              |                |              |                                            |                  | Input                                                         | Output | Grid-plate |
| 25Z5                        | High-Vacuum Rectifier Doubler            | 6E               | 12-5            | Htr          | 25.0           | 0.3          | Tube Voltage Drop: ♦<br>22 v at 150 ma d-c |                  |                                                               |        |            |
| 25Z6<br>25Z6-GT<br>25Z6-WGT | High-Vacuum Rectifier Doubler            | 7Q               | 8-6<br>9-11     | Htr          | 25.0           | 0.3          | Tube Voltage Drop: ♦<br>22 v at 150 ma d-c |                  |                                                               |        |            |
| 26                          | Medium-Mu Triode                         | 4D               | 14-1            | Fil          | 1.5            | 1.05         | 180                                        | —                | 2.8                                                           | 2.5    | 8.1        |
| 26A6                        | Remote-Cutoff RF Pentode                 | 7BK              | 5-2             | Htr          | 26.5           | 0.07         | 250                                        | 100              | 6.0                                                           | 5.0    | 0.0035     |
| 26A7-GT                     | Twin-Pentode Power Amplifier             | 8BU              | 9-33<br>or 9-44 | Htr          | 26.5           | 0.6          | 50                                         | 50               | 16.0▲                                                         | 13.0▲  | 1.2▲       |
| 26C6                        | Duplex-Diode Medium-Mu Triode            | 7BT              | 5-2             | Htr          | 26.5           | 0.07         | 250                                        | —                | 1.8                                                           | 1.4    | 2.0        |
| 26CG6                       | Remote-Cutoff Pentode                    | 7BK              | 5-2             | Htr          | 26.5           | 0.07         | 300                                        | 150              | 5.0                                                           | 5.0    | 0.008<br>♦ |
| 26D6                        | Pentagrid Converter                      | 7CH▼             | 5-2             | Htr          | 26.5           | 0.07         | 300                                        | 100              | Osc I <sub>g1</sub> = 0.5 ma<br>R <sub>g1</sub> = 20,000 ohms |        |            |
| 26Z6-W                      | Full-Wave High-Vacuum Rectifier          | 9BS              | 6-2             | Htr          | 26.5           | 0.2          | Tube Voltage Drop: ♦<br>22 v at 100 ma d-c |                  |                                                               |        |            |
| 27                          | Medium-Mu Triode                         | 5A               | 12-5            | Htr          | 2.5            | 1.75         | 275                                        | —                | 3.1                                                           | 2.3    | 3.3        |
| 28D7                        | Double Beam Power Amplifier              | 8BS              | 9-31            | Htr          | 28.0           | 0.4          | 100                                        | 67.5             | —                                                             | —      | —          |
| 28Z5                        | Full-Wave High-Vacuum Rectifier          | 5AB              | 9-31            | Htr          | 28.0           | 0.24         | Tube Voltage Drop: ♦<br>40 v at 100 ma d-c |                  |                                                               |        |            |
| 30                          | Medium-Mu Triode                         | 4D               | 12-5<br>or 9-26 | Fil          | 2.0 DC         | 0.06         | 180                                        | —                | 3.0▲                                                          | 2.2▲   | 6.0▲       |
| 31                          | Power-Amplifier Triode                   | 4D               | 12-5            | Fil          | 2.0 DC         | 0.13         | 180                                        | —                | 3.5                                                           | 2.7    | 5.7        |
| 32                          | Sharp-Cutoff RF Tetrode                  | 4K               | 14-2            | Fil          | 2.0 DC         | 0.06         | 180                                        | 67.5             | 5.3▲                                                          | 10.5▲  | 0.015      |
| 32L7-GT                     | Half-Wave Rectifier Beam Power Amplifier | 8Z               | 9-11            | Htr          | 32.5           | 0.3          | 90                                         | 90               | —                                                             | —      | —          |
| 33                          | Power Amplifier Pentode                  | 5K               | 14-1            | Fil          | 2.0 DC         | 0.26         | 180                                        | 180              | 8.0                                                           | 12.0   | 1.0        |
| 34                          | Remote-Cutoff RF Pentode                 | 4M               | 14-2            | Fil          | 2.0 DC         | 0.06         | 180                                        | 67.5             | 6.0▲                                                          | 11.0▲  | 0.015♦     |

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

③ Subminiature type.



| Service                           | Plate Volts                                                                                                                                                       | Screen Volts | Neg Grid Volts                                 | Plate Milli-am-peres | Screen Milli-am-peres | R <sub>p</sub> , Ohms | G <sub>m</sub> , $\mu$ mhos | $\mu$ Factor | Load for Rated Output, Ohms | Power Output, Watts | Tube Type                   |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------------|----------------------|-----------------------|-----------------------|-----------------------------|--------------|-----------------------------|---------------------|-----------------------------|
| Rectifier or Doubler              | Max d-c output current per plate = 75 ma; max peak inverse voltage = 700 volts; max rms supply voltage per plate = 235 volts; max peak current per plate = 450 ma |              |                                                |                      |                       |                       |                             |              |                             |                     | 25Z5                        |
| Rectifier or Doubler              | Max d-c output current per plate = 75 ma; max peak inverse voltage = 700 volts; max rms supply voltage per plate = 235 volts; max peak current per plate = 450 ma |              |                                                |                      |                       |                       |                             |              |                             |                     | 25Z6<br>25Z6-GT<br>25Z6-WGT |
| Class A Amplifier                 | 180                                                                                                                                                               | —            | 14.5                                           | 6.2                  | —                     | 7,300                 | 1,150                       | 8.3          | —                           | —                   | 26                          |
| Class A Amplifier                 | 250                                                                                                                                                               | 100          | R <sub>g</sub> = 125<br>R <sub>e</sub> = 2 meg | 10.5<br>1.7          | 4.0<br>0.7            | 1,000,000<br>250,000  | 4,000<br>2,000              | —            | —                           | —                   | 26A6                        |
| Class A Amplifier $\blacklozenge$ | 26.5                                                                                                                                                              | 26.5         | 4.5                                            | 20†                  | 1.9†                  | —                     | 5,700                       | —            | 1,500                       | 0.18                | 26A7-GT                     |
| Class A Amplifier                 | 250                                                                                                                                                               | 26.5         | 9.0<br>R <sub>e</sub> = 2 meg                  | 8.5<br>1.1           | —                     | 8,500<br>15,500       | 1,900<br>1,100              | 16<br>17     | —                           | —                   | 26C6                        |
| Class A Amplifier                 | 250                                                                                                                                                               | 150          | 8.0                                            | 9.0                  | 2.3                   | 720,000               | 2,000                       | —            | —                           | —                   | 26CG6                       |
| Converter                         | 250                                                                                                                                                               | 100          | 1.5                                            | 3.0                  | 7.8                   | 1,000,000§            | 475 #                       | —            | —                           | —                   | 26D6                        |
| Full-Wave Rectifier               | Max d-c output current per plate = 50 ma; max peak inverse voltage = 1250 volts; rms supply voltage per plate = 325 v; max peak current per plate = 300 ma        |              |                                                |                      |                       |                       |                             |              |                             |                     | 26Z6-W                      |
| Class A Amplifier                 | 250                                                                                                                                                               | —            | 21                                             | 5.2                  | —                     | 9,250                 | 975                         | 9.0          | —                           | —                   | 27                          |
| Class A Amplifier $\blacklozenge$ | 28                                                                                                                                                                | 28           | 3.5                                            | 12.5†                | 1.0†                  | 4,200                 | 3,400                       | —            | 4,000                       | 0.100               | 28D7                        |
| Full-Wave Rectifier               | Max d-c output current = 100 ma; max peak inverse voltage = 1250 volts; max rms supply voltage per plate = 325 volts; max peak current per plate = 300 ma         |              |                                                |                      |                       |                       |                             |              |                             |                     | 28Z5                        |
| Class A Amplifier                 | 180                                                                                                                                                               | —            | 13.5                                           | 3.1                  | —                     | 10,300§               | 900                         | 9.3          | —                           | —                   | 30                          |
| Class A Amplifier                 | 180                                                                                                                                                               | —            | 30                                             | 12.3†                | —                     | 3,600                 | 1,050                       | 3.8          | 5,700                       | 0.375               | 31                          |
| Class A Amplifier                 | 180                                                                                                                                                               | 67.5         | 3.0                                            | 1.7                  | 0.4                   | 1,200,000             | 650                         | —            | —                           | —                   | 32                          |
| Class A Amplifier                 | 90                                                                                                                                                                | 90           | 7.0<br>5.0                                     | 27†<br>38†           | 2.0†<br>3.0†          | 17,000<br>15,000      | 4,800<br>6,000              | —            | 2,600<br>2,600              | 1.0<br>0.8          | 32L7-GT                     |
| Half-Wave Rectifier               | Max. d-c output current = 60 ma; max rms supply voltage = 125 v                                                                                                   |              |                                                |                      |                       |                       |                             |              |                             |                     |                             |
| Class A Amplifier                 | 180                                                                                                                                                               | 180          | 18                                             | 22†                  | 5.0†                  | 55,000§               | 1,700                       | —            | 6,000                       | 1.4                 | 33                          |
| Class A Amplifier                 | 180                                                                                                                                                               | 67.5         | 3.0                                            | 2.8                  | 1.0                   | 1,000,000             | 620                         | —            | —                           | —                   | 34                          |

§ 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.

② 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.

— A resistor of 3 ohms must be put in series with heater.