



# RCA CUNNINGHAM RADIOTRON CHART



| TYPE | NAME                                | BASE         | SOCKET CONNECTIONS | DIMENSIONS MAXIMUM OVERALL LENGTH X DIAMETER | CATHODE TYPE # | RATING             |       |        | USE  | PLATE SUPPLY VOLTS | GRID VOLTS | SCREEN VOLTS | SCREEN MILLI-AMP. | PLATE MILLI-AMP. | A-C PLATE RESISTANCE OHMS | MUTUAL CONDUCTANCE MICRO-MHMS | VOLTAGE AMPLIFICATION FACTOR | LOAD FOR STATED POWER OUTPUT OHMS | POWER OUTPUT WATTS | TYPE |
|------|-------------------------------------|--------------|--------------------|--|----------------|--------------------|-------|--------|------|--------------------|------------|--------------|-------------------|------------------|---------------------------|-------------------------------|------------------------------|-----------------------------------|--------------------|------|
|      |                                     |              |                    |  |                | FILAMENT OR HEATER | PLATE | SCREEN |      |                    |            |              |                   |                  |                           |                               |                              |                                   |                    |      |
| 1A6  | PENTAGRID CONVERTER                 | SMALL 6-PIN  | FIG. 28            | 4 1/2" x 1 1/8"                              | D-C FILAMENT   | 2.0                | 0.06  | 180    | 67.5 | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | 1A6  |
| 1C6  | PENTAGRID CONVERTER                 | SMALL 6-PIN  | FIG. 28            | 4 1/2" x 1 1/8"                              | D-C FILAMENT   | 2.0                | 0.12  | 180    | 67.5 | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | 1C6  |
| 2A3  | POWER AMPLIFIER TRODE               | MEDIUM 4-PIN | FIG. 1             | 5 1/2" x 2 1/8"                              | FILAMENT       | 2.5                | 2.5   | 300    | —    | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | 2A3  |
| 2A5  | POWER AMPLIFIER PENTODE             | MEDIUM 6-PIN | FIG. 15A           | 4 1/2" x 1 1/8"                              | HEATER         | 2.5                | 1.75  | 250    | 150  | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | 2A5  |
| 2A6  | DUPLEX-DIODE HIGH-MU TRODE          | SMALL 6-PIN  | FIG. 13            | 4 1/2" x 1 1/8"                              | HEATER         | 2.5                | 0.8   | 250    | —    | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | 2A6  |
| 2A7  | PENTAGRID CONVERTER                 | SMALL 7-PIN  | FIG. 20            | 4 1/2" x 1 1/8"                              | HEATER         | 2.5                | 0.8   | 250    | 100  | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | 2A7  |
| 2B7  | DUPLEX-DIODE PENTODE                | SMALL 7-PIN  | FIG. 21            | 4 1/2" x 1 1/8"                              | HEATER         | 2.5                | 0.8   | 250    | 125  | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | 2B7  |
| 6A4  | POWER AMPLIFIER PENTODE             | MEDIUM 6-PIN | FIG. 6             | 4 1/2" x 1 1/8"                              | FILAMENT       | 6.3                | 0.3   | 180    | 180  | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | 6A4  |
| 6A6  | TWIN-TRODE AMPLIFIER                | MEDIUM 7-PIN | FIG. 24            | 4 1/2" x 1 1/8"                              | HEATER         | 6.3                | 0.8   | 300    | —    | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | 6A6  |
| 6A7  | PENTAGRID CONVERTER                 | SMALL 7-PIN  | FIG. 20            | 4 1/2" x 1 1/8"                              | HEATER         | 6.3                | 0.3   | 250    | 100  | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | 6A7  |
| 6B7  | DUPLEX-DIODE PENTODE                | SMALL 7-PIN  | FIG. 21            | 4 1/2" x 1 1/8"                              | HEATER         | 6.3                | 0.3   | 250    | 125  | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | 6B7  |
| 6C6  | TRIPLE-GRID AMPLIFIER               | SMALL 6-PIN  | FIG. 11            | 4 1/2" x 1 1/8"                              | HEATER         | 6.3                | 0.3   | 250    | 100  | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | 6C6  |
| 6D6  | TRIPLE-GRID SUPER-CONTROL AMPLIFIER | SMALL 6-PIN  | FIG. 11            | 4 1/2" x 1 1/8"                              | HEATER         | 6.3                | 0.3   | 250    | 100  | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | 6D6  |

Grids #3 and #5 are screen. Grid #4 is signal-input control-grid. \*Applies through plate coupling resistor of 20000 ohms. \*\*For grid of following tube. †Applies through plate coupling resistor of 250000 ohms.

|       |                          |              |         |                 |              |     |       |     |      |   |   |   |   |   |   |   |   |   |   |   |       |
|-------|--------------------------|--------------|---------|-----------------|--------------|-----|-------|-----|------|---|---|---|---|---|---|---|---|---|---|---|-------|
| 6F7   | TRODE-PENTODE            | SMALL 7-PIN  | FIG. 27 | 4 1/2" x 1 1/8" | HEATER       | 6.3 | 0.3   | 100 | —    | — | — | — | — | — | — | — | — | — | — | — | 6F7   |
| '00-A | DETECTOR TRODE           | MEDIUM 4-PIN | FIG. 1  | 4 1/2" x 1 1/8" | D-C FILAMENT | 5.0 | 0.25  | 45  | —    | — | — | — | — | — | — | — | — | — | — | — | '00-A |
| 01-A  | DETECTOR-AMPLIFIER       | MEDIUM 4-PIN | FIG. 1  | 4 1/2" x 1 1/8" | D-C FILAMENT | 5.0 | 0.25  | 135 | —    | — | — | — | — | — | — | — | — | — | — | — | 01-A  |
| 10    | POWER AMPLIFIER TRODE    | MEDIUM 4-PIN | FIG. 1  | 5 1/2" x 2 1/8" | FILAMENT     | 7.5 | 1.25  | 425 | —    | — | — | — | — | — | — | — | — | — | — | — | 10    |
| 11    | DETECTOR-AMPLIFIER TRODE | WD 4-PIN     | FIG. 12 | 4 1/2" x 1 1/8" | D-C FILAMENT | 1.1 | 0.25  | 135 | —    | — | — | — | — | — | — | — | — | — | — | — | 11    |
| 12    | DETECTOR-AMPLIFIER TRODE | WD 4-PIN     | FIG. 12 | 4 1/2" x 1 1/8" | D-C FILAMENT | 1.1 | 0.25  | 135 | —    | — | — | — | — | — | — | — | — | — | — | — | 12    |
| 19    | TWIN-TRODE AMPLIFIER     | SMALL 6-PIN  | FIG. 25 | 4 1/2" x 1 1/8" | D-C FILAMENT | 2.0 | 0.26  | 135 | —    | — | — | — | — | — | — | — | — | — | — | — | 19    |
| '20   | POWER AMPLIFIER TRODE    | SMALL 4-PIN  | FIG. 1  | 4 1/2" x 1 1/8" | D-C FILAMENT | 3.3 | 0.132 | 135 | —    | — | — | — | — | — | — | — | — | — | — | — | '20   |
| 22    | R-F AMPLIFIER TRODE      | MEDIUM 4-PIN | FIG. 4  | 5 1/2" x 1 1/8" | D-C FILAMENT | 3.3 | 0.132 | 135 | 67.5 | — | — | — | — | — | — | — | — | — | — | — | 22    |
| 24-A  | R-F AMPLIFIER TRODE      | MEDIUM 6-PIN | FIG. 9  | 5 1/2" x 1 1/8" | HEATER       | 2.5 | 1.75  | 275 | 90   | — | — | — | — | — | — | — | — | — | — | — | 24-A  |
| 26    | AMPLIFIER TRODE          | MEDIUM 4-PIN | FIG. 1  | 4 1/2" x 1 1/8" | FILAMENT     | 1.5 | 1.05  | 180 | —    | — | — | — | — | — | — | — | — | — | — | — | 26    |
| 27    | DETECTOR-AMPLIFIER TRODE | MEDIUM 6-PIN | FIG. 8  | 4 1/2" x 1 1/8" | HEATER       | 2.5 | 1.75  | 275 | —    | — | — | — | — | — | — | — | — | — | — | — | 27    |
| 30    | DETECTOR-AMPLIFIER TRODE | SMALL 6-PIN  | FIG. 1  | 4 1/2" x 1 1/8" | D-C FILAMENT | 2.0 | 0.06  | 180 | —    | — | — | — | — | — | — | — | — | — | — | — | 30    |

\*For Grid-leak Detection—plate volts 45, grid return to + filament or to cathode. †Applied through plate coupling resistor of 250000 ohms or 500-henry choke shunted by 0.25 megohm resistor. \*Maximum.

|       |                                     |              |         |                 |              |     |      |     |      |   |   |   |   |   |   |   |   |   |   |   |       |
|-------|-------------------------------------|--------------|---------|-----------------|--------------|-----|------|-----|------|---|---|---|---|---|---|---|---|---|---|---|-------|
| 31    | POWER AMPLIFIER TRODE               | SMALL 4-PIN  | FIG. 1  | 4 1/2" x 1 1/8" | D-C FILAMENT | 2.0 | 0.13 | 180 | —    | — | — | — | — | — | — | — | — | — | — | — | 31    |
| 32    | R-F AMPLIFIER TRODE                 | MEDIUM 4-PIN | FIG. 4  | 5 1/2" x 1 1/8" | D-C FILAMENT | 2.0 | 0.06 | 180 | 67.5 | — | — | — | — | — | — | — | — | — | — | — | 32    |
| 33    | POWER AMPLIFIER PENTODE             | MEDIUM 4-PIN | FIG. 6  | 4 1/2" x 1 1/8" | D-C FILAMENT | 2.0 | 0.26 | 180 | 180  | — | — | — | — | — | — | — | — | — | — | — | 33    |
| 34    | SUPER-CONTROL R-F AMPLIFIER PENTODE | MEDIUM 4-PIN | FIG. 4A | 5 1/2" x 1 1/8" | D-C FILAMENT | 2.0 | 0.06 | 180 | 67.5 | — | — | — | — | — | — | — | — | — | — | — | 34    |
| 35    | SUPER-CONTROL R-F AMPLIFIER TRODE   | MEDIUM 6-PIN | FIG. 9  | 5 1/2" x 1 1/8" | HEATER       | 2.5 | 1.75 | 275 | 90   | — | — | — | — | — | — | — | — | — | — | — | 35    |
| 36    | R-F AMPLIFIER TRODE                 | SMALL 6-PIN  | FIG. 9  | 4 1/2" x 1 1/8" | HEATER       | 6.3 | 0.3  | 250 | 90   | — | — | — | — | — | — | — | — | — | — | — | 36    |
| 37    | DETECTOR-AMPLIFIER TRODE            | SMALL 6-PIN  | FIG. 8  | 4 1/2" x 1 1/8" | HEATER       | 6.3 | 0.3  | 250 | —    | — | — | — | — | — | — | — | — | — | — | — | 37    |
| 38    | POWER AMPLIFIER PENTODE             | SMALL 6-PIN  | FIG. 9A | 4 1/2" x 1 1/8" | HEATER       | 6.3 | 0.3  | 250 | 250  | — | — | — | — | — | — | — | — | — | — | — | 38    |
| 39-44 | SUPER-CONTROL R-F AMPLIFIER PENTODE | SMALL 6-PIN  | FIG. 9A | 4 1/2" x 1 1/8" | HEATER       | 6.3 | 0.3  | 250 | 90   | — | — | — | — | — | — | — | — | — | — | — | 39-44 |

\*For Grid-leak Detection—plate volts 45, grid return to + filament or to cathode. †Applied through plate coupling resistor of 250000 ohms or 500-henry choke shunted by 0.25 megohm resistor. \*Maximum.

| TYPE | NAME                           | BASE         | SOCKET CONNECTIONS | DIMENSIONS MAXIMUM OVERALL LENGTH X DIAMETER | CATHODE TYPE # | RATING             |       |        | USE | PLATE SUPPLY VOLTS | GRID VOLTS | SCREEN VOLTS | SCREEN MILLI-AMP. | PLATE MILLI-AMP. | A-C PLATE RESISTANCE OHMS | MUTUAL CONDUCTANCE MICRO-MHMS | VOLTAGE AMPLIFICATION FACTOR | LOAD FOR STATED POWER OUTPUT OHMS | POWER OUTPUT WATTS | TYPE |    |
|------|--------------------------------|--------------|--------------------|--|----------------|--------------------|-------|--------|-----|--------------------|------------|--------------|-------------------|------------------|---------------------------|-------------------------------|------------------------------|-----------------------------------|--------------------|------|----|
|      |                                |              |                    |  |                | FILAMENT OR HEATER | PLATE | SCREEN |     |                    |            |              |                   |                  |                           |                               |                              |                                   |                    |      |    |
| 40   | VOLTAGE AMPLIFIER TRODE        | MEDIUM 4-PIN | FIG. 1             | 4 1/2" x 1 1/8"                              | D-C FILAMENT   | 5.0                | 0.25  | 180    | —   | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | —    | 40 |
| 41   | POWER AMPLIFIER PENTODE        | SMALL 6-PIN  | FIG. 15A           | 4 1/2" x 1 1/8"                              | HEATER         | 6.3                | 0.4   | 250    | 250 | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | —    | 41 |
| 42   | POWER AMPLIFIER PENTODE        | MEDIUM 6-PIN | FIG. 15A           | 4 1/2" x 1 1/8"                              | HEATER         | 6.3                | 0.7   | 250    | 250 | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | —    | 42 |
| 43   | POWER AMPLIFIER PENTODE        | MEDIUM 6-PIN | FIG. 15A           | 4 1/2" x 1 1/8"                              | HEATER         | 25.0               | 0.3   | 135    | 135 | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | —    | 43 |
| 45   | POWER AMPLIFIER TRODE          | MEDIUM 6-PIN | FIG. 1             | 4 1/2" x 1 1/8"                              | FILAMENT       | 2.5                | 1.5   | 275    | —   | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | —    | 45 |
| 46   | DUAL-GRID POWER AMPLIFIER      | MEDIUM 6-PIN | FIG. 7             | 5 1/2" x 2 1/8"                              | FILAMENT       | 2.5                | 1.75  | 250    | —   | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | —    | 46 |
| 47   | POWER AMPLIFIER PENTODE        | MEDIUM 6-PIN | FIG. 8             | 5 1/2" x 2 1/8"                              | FILAMENT       | 2.5                | 1.75  | 250    | 250 | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | —    | 47 |
| 48   | POWER AMPLIFIER TRODE          | MEDIUM 6-PIN | FIG. 18            | 5 1/2" x 2 1/8"                              | D-C HEATER     | 30.0               | 0.4   | 125    | 100 | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | —    | 48 |
| 49   | DUAL-GRID AMPLIFIER            | MEDIUM 6-PIN | FIG. 7             | 4 1/2" x 1 1/8"                              | D-C FILAMENT   | 2.0                | 0.12  | 180    | —   | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | —    | 49 |
| 50   | POWER AMPLIFIER TRODE          | MEDIUM 4-PIN | FIG. 1             | 6 1/2" x 2 1/8"                              | FILAMENT       | 7.5                | 1.25  | 450    | —   | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | —    | 50 |
| 53   | TWIN-TRODE AMPLIFIER           | MEDIUM 7-PIN | FIG. 24            | 4 1/2" x 1 1/8"                              | HEATER         | 2.5                | 2.0   | 300    | —   | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | —    | 53 |
| 55   | DUPLEX-DIODE TRODE             | SMALL 6-PIN  | FIG. 13            | 4 1/2" x 1 1/8"                              | HEATER         | 2.5                | 1.0   | 250    | —   | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | —    | 55 |
| 56   | SUPER-TRODE AMPLIFIER          | SMALL 6-PIN  | FIG. 8             | 4 1/2" x 1 1/8"                              | HEATER         | 2.5                | 1.0   | 250    | —   | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | —    | 56 |
| 57   | TRIPLE-GRID DETECTOR AMPLIFIER | SMALL 6-PIN  | FIG. 11            | 4 1/2" x 1 1/8"                              | HEATER         | 2.5                | 1.0   | 250    | 100 | —                  | —          | —            | —                 | —                | —                         | —                             | —                            | —                                 | —                  | —    | 57 |

\*For Grid-leak Detection—plate volts 45, grid return to + filament or to cathode. †Applied through plate coupling resistor of 250000 ohms. \*\*For grid of following tube. ‡Grid next to plate tied to plate. §Two grids tied together. ¶For grid of following tube. \*Applies through plate coupling resistor of 250000 ohms.

|      |                                     |              |         |                 |          |     |      |     |     |   |   |   |   |   |   |   |   |   |   |   |      |
|------|-------------------------------------|--------------|---------|-----------------|----------|-----|------|-----|-----|---|---|---|---|---|---|---|---|---|---|---|------|
| 58   | TRIPLE-GRID SUPER-CONTROL AMPLIFIER | SMALL 6-PIN  | FIG. 11 | 4 1/2" x 1 1/8" | HEATER   | 2.5 | 1.0  | 250 | 100 | — | — | — | — | — | — | — | — | — | — | — | 58   |
| 59   | TRIPLE-GRID POWER AMPLIFIER         | MEDIUM 7-PIN | FIG. 18 | 5 1/2" x 2 1/8" | HEATER   | 2.5 | 2.0  | 300 | —   | — | — | — | — | — | — | — | — | — | — | — | 59   |
| 71-A | POWER AMPLIFIER                     | MEDIUM 4-PIN | FIG. 1  | 4 1/2" x 1 1/8" | FILAMENT | 5.0 | 0.25 | 180 | —   | — | — | — | — | — | — | — | — | — | — | — | 71-A |
| 75   | DUPLEX-DIODE HIGH-MU TRODE          | SMALL 6-PIN  | FIG. 13 | 4 1/2" x 1 1/8" | HEATER   | 6.3 | 0.3  | 250 | —   | — | — | — | — | — | — | — | — | — | — | — | 75   |
| 76   | SUPER-TRODE DETECTOR                | SMALL 6-PIN  | FIG. 8  | 4 1/2" x 1 1/8" | HEATER   | 6.3 | 0.3  | 250 | —   | — | — | — | — | — | — | — | — | — | — | — | 76   |
| 77   | TRIPLE-GRID DETECTOR AMPLIFIER      | SMALL 6-PIN  | FIG. 11 | 4 1/2" x 1 1/8" | HEATER   | 6.3 | 0.3  | 250 | 100 | — | — | — | — | — | — | — | — | — | — | — | 77   |
| 78   | TRIPLE-GRID SUPER-CONTROL AMPLIFIER | SMALL 6-PIN  | FIG. 11 | 4 1/2" x 1 1/8" | HEATER   | 6.3 | 0.3  | 250 | 125 | — | — | — | — | — |   |   |   |   |   |   |      |