

## POWER TUBES - TRIODES (Continued)

| TYPE NO.  | FILAMENT |       | Mu   | Max.<br>Diss.<br>Watts | TYPICAL OPERATION                |             |                 |             |                                    | MAX.<br>FREQ.<br>mc<br><br>Full Input<br>Watts |     |
|-----------|----------|-------|------|------------------------|----------------------------------|-------------|-----------------|-------------|------------------------------------|------------------------------------------------|-----|
|           | Volts    | Amps  |      |                        | PLATE                            |             |                 | GRID        |                                    |                                                |     |
|           |          |       |      |                        | Volts<br>DC                      | Amps<br>DC  | Output<br>Watts | Volts<br>DC | MA<br>DC                           |                                                |     |
| ZB3200    | 22.0     | 40.5  | 75   | 2,500                  | 8,000                            | 0.960       | 5,800           | -400        | 150                                | 10                                             |     |
| 356       | 7.5      | 170   | 20   | 22,500                 | 15,000                           | 4.4         | 51,000          | -1500       | 0.37                               | 25                                             |     |
| 502       | 7.5      | 24    | 17   | 1,500                  | 3,500                            | 0.860       | 2,175           | -450        | 150                                | 150                                            |     |
| 502R      | 7.5      | 24    | 17   | 1,500                  | 3,500                            | 0.860       | 2,175           | -450        | 150                                | 150                                            |     |
| 504R      | 7.5      | 24    | 17   | 1,000                  | 3,500                            | 0.860       | 2,175           | -750        | 150                                | 150                                            |     |
| 805       | 10       | 3.25  |      | 125                    | 1,500                            | 0.2         | 215             | - 105       | 0.04                               | 30                                             |     |
| 810       | 10       | 4.5   | 36   | 125                    | 2,000                            | 0.250       | 375             | -160        | 40                                 | 100                                            |     |
| 811A      | 6.3      | 4     | 160  | 45                     | 1,250                            | 0.140       | 135             | -50         | 45                                 | 100                                            |     |
| 812A      | 6.3      | 4     | 29   | 45                     | 1,250                            | 0.140       | 130             | -90         | 30                                 | 100                                            |     |
| 834       | 7.5      | 3.25  | 10.5 | 50                     | 1,250                            | 0.1         | 75              | - 225       | 0.015                              | 100                                            |     |
| 838       | 10       | 3.25  |      | 100                    | 1,250                            | 0.175       | 130             | - 90        | 0.03                               | 30                                             |     |
| 845       | 10       | 3.25  |      | 75                     | 1,250                            | 0.2<br>Peak | 105             | -225        |                                    |                                                |     |
| 833A      | 10.0     | 10.0  | 35   | 400                    | 4,000                            | 0.450       | 1,440           | -200        | 75                                 | 30                                             |     |
| 849       | 11.0     | 5     | 19   | 500                    | 2,500                            | 0.350       | 630             | -250        | 13                                 | 3                                              |     |
| 849A      | 11.0     | 7.7   | 19   | 500                    | 3,000                            | 0.500       | 1,200           | -500        | 100                                | 20                                             |     |
| 880       | 12.6     | 320   | 20   | 20,000                 | 10,000                           | 6.0         | 40,000          | -1200       | 800                                | 25                                             |     |
| 889A      | 11.0     | 125   | 21   | 5,000                  | 7,500                            | 2.0         | 10,000          | -800        | 240                                | 50                                             |     |
| 889RA     | 11.0     | 125   | 21   | 5,000                  | 7,500                            | 2.0         | 10,000          | -800        | 240                                | 25                                             |     |
| 891       | 22.0     | 60.0  | 8    | 6,000                  | 10,000                           | 1.45        | 10,000          | -3000       | 150                                | 1.6                                            |     |
| 891R      | 22.0     | 60.0  | 8    | 4,000                  | 10,000                           | 1.4         | 10,000          | -2000       | 150                                | 1.6                                            |     |
| 892       | 22.0     | 60.0  | 50   | 10,000                 | 12,000                           | 1.55        | 14,250          | -1600       | 165                                | 1.6                                            |     |
| 892R      | 22.0     | 60.0  | 50   | 4,000                  | 10,000                           | 1.40        | 10,500          | -1300       | 160                                | 1.6                                            |     |
| 5604      | 11.0     | 176.0 | 19   | 10,000                 | 12,000                           | 2.5         | 22,500          | -1170       | 220                                | 22.5                                           |     |
| 5619      | 11.0     | 176.0 | 19   | 20,000                 | 12,000                           | 2.5         | 22,500          | -1170       | 220                                | 22.5                                           |     |
| 5658      | 12.0     | 290.0 | 20.5 | 10,000                 | 10,000                           | 3.8         | 28,000          | -870        | 550                                | 15                                             |     |
| 5666      | 11.0     | 120.0 | 21   | 12,500                 | 9,000                            | 2.0         | 12,200          | -750        | 210                                | 22.5                                           |     |
| 5667      | 11.0     | 120.0 | 21   | 7,500                  | 9,000                            | 2.0         | 12,200          | -750        | 210                                | 22.5                                           |     |
| 5759/501R | 7.5      | 24    | 17   | 1,000                  | 3,500                            | 0.870       | 2,175           | -250        | 133                                | 150                                            |     |
| 5771      | 7.5      | 170   | 20   | 22,500                 | 12,500                           | 4.8         | 44,000          | -630        | 750                                | 25                                             |     |
| 5866      | 6.3      | 5.4   | 25   | 135                    | 2,500                            | 0.200       | 390             | -300        | 45                                 | 150                                            |     |
| 7986      |          |       |      |                        |                                  |             |                 |             |                                    |                                                |     |
| 5867      |          |       |      |                        |                                  |             |                 |             |                                    |                                                |     |
| 5867 A    |          |       |      |                        |                                  |             |                 |             |                                    |                                                |     |
| 5868      | 10.0     | 10.0  | 27   | 450                    | 4,000                            | 0.475       | 1,673           | -350        | 100                                | 100                                            |     |
| 5923      | 12.6     | 33.0  | 32   | 6,000                  | 6,000                            | 1.5         | 6,900           | -400        | 310                                | 75                                             |     |
| 5924      | 12.6     | 33.0  | 32   | 5,000                  | 6,000                            | 1.5         | 6,900           | -400        | 310                                | 75                                             |     |
| 5924A     | 12.6     | 33.0  | 32   | 6,000                  | CLASS B, TV SERVICE, SYNC. LEVEL |             |                 |             | 75<br>Full Input<br>220<br>Derated |                                                |     |
|           |          |       |      |                        | 5,000                            | 1.90        | 6,250           | -140        |                                    |                                                | 350 |

|  | INTERELECTRODE<br>CAPACITANCE - $\mu\mu f$ |      |      | DESCRIPTION                                                                                                                                                                                                        | TYPE NO.       |
|--|--------------------------------------------|------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
|  | G-P                                        | G-F  | P-F  |                                                                                                                                                                                                                    |                |
|  | 10.0                                       | 13.0 | 2.0  | Forced-air cooled triode. Original Amperex design. 5.8 kw output at 10 mc with zero bias. Used principally in broadcasting.                                                                                        | ZB3200         |
|  | 24.5                                       | 35   | 2.5  | Water-cooled tube for use as a modulator amplifier or oscillator. Suited for broadcast, communication or industrial service.                                                                                       | 356            |
|  | 10                                         | 14   | 1.3  | Water-cooled triode for use as a power amplifier and oscillator.                                                                                                                                                   | 502            |
|  | 10                                         | 14   | 1.3  | Forced-air cooled triode. Ideal power amplifier and oscillator. Has a thoriated-tungsten filament                                                                                                                  | 502R           |
|  | 10.5                                       | 14.0 | 1.3  | Forced-air cooled triode similar to Amperex 501R minus flexible leads. Interchangeable with 7C26 with very minor circuit changes.                                                                                  | 504R           |
|  | 6.5                                        | 8.5  | 10.5 | High mu tube for use as an RF amplifier, oscillator, and class B AF amplifier.                                                                                                                                     | 805            |
|  | 4.8                                        | 8.7  | 12   | Transmitting triode designed for use as RF power amplifier and oscillator final amplifier stage.                                                                                                                   | 810            |
|  | 5.6                                        | 5.9  | 0.7  | Power triode designed for use as an RF power amplifier, modulator and oscillator                                                                                                                                   | 811A           |
|  | 5.5                                        | 5.4  | 0.77 | Power triode designed for use as an RF amplifier, modulator and self-rectifying oscillator.                                                                                                                        | 812A           |
|  | 2.6                                        | 2.2  | 0.6  | A radiation cooled RF oscillator and amplifier intended for replacement service.                                                                                                                                   | 834            |
|  | 8                                          | 6.5  | 5    | A zero bias class B AF power amplifier, RF oscillator or power amplifier.                                                                                                                                          | 838            |
|  | 13.5                                       | 6    | 6.5  | Class A and class AB modulator.                                                                                                                                                                                    | 845            |
|  | 6.3                                        | 12.3 | 8.5  | Radiation and forced-air cooled triode used widely in AM transmitters and also some RF heating applications. (Refer to 5868/AX9902 data).                                                                          | 833A           |
|  | 33.0                                       | 11.0 | 2.0  | Radiation and forced-air cooled triode. Still popular as replacement in some AM broadcast transmitters and RF heating.                                                                                             | 849            |
|  | 11.5                                       | 14.0 | 1.8  | Same information as above. Interelectrode capacitance different.                                                                                                                                                   | 849A           |
|  | 26.0                                       | 29.0 | 2.6  | Water-cooled triode. This rugged "powerhouse" very popular in broadcasting stations and ideal for RF heating applications.                                                                                         | 880            |
|  | 17.8                                       | 19.5 | 3.0  | Water-cooled triode. Another rugged high power RF tube for broadcasting stations and RF heating applications.                                                                                                      | 889A           |
|  | 20.7                                       | 19.5 | 3.0  | Forced-air cooled triode version of 889 A, with improved radiator design.                                                                                                                                          | 889RA          |
|  | 28.0                                       | 16.0 | 3.0  | Water-cooled triode. This is one of the tubes that built Amperex reputation. Used in 5 and 10 kw broadcasting stations. Also popular in RF heating.                                                                | 891            |
|  | 30.0                                       | 16.0 | 3.0  | Forced-air cooled version of 891.                                                                                                                                                                                  | 891R           |
|  | 32.0                                       | 17.0 | 1.8  | Water-cooled triode. Widely used all over the world in broadcasting stations. Also another ideal RF heating tube. Also see 6333 improved version.                                                                  | 892            |
|  | 32.0                                       | 17.0 | 2.0  | Forced-air cooled version of 892. Also see 6445 improved version.                                                                                                                                                  | 892R           |
|  | 25.0                                       | 30.0 | 1.25 | Forced-air cooled triode. Ideal oscillator for RF heating and broadcasting service.                                                                                                                                | 5604           |
|  | 24.0                                       | 30.0 | 1.0  | Water-cooled version of 5604.                                                                                                                                                                                      | 5619           |
|  | 24.0                                       | 39.0 | 2.5  | Industrial water-cooled version of type 880.                                                                                                                                                                       | 5658           |
|  | 18.0                                       | 23.5 | 2.6  | Water-cooled triode. Heavy duty version of 889 A for industrial RF heating application.                                                                                                                            | 5666           |
|  | 18.5                                       | 23.5 | 3.0  | Forced-air cooled triode. Heavy duty version of 889 RA for industrial RF heating application.                                                                                                                      | 5667           |
|  | 10.0                                       | 14.0 | 1.3  | Forced-air cooled triode. Low voltage, high current characteristics. Ideal for RF heating. Has a thoriated-tungsten filament.                                                                                      | 5759/501R      |
|  | 24.5                                       | 47.0 | 3.0  | Improved version of 880 with thoriated-tungsten filament for high emission capability and a saving of 70% in filament power. Has rugged Kovar grid and filament seals. For industrial & communication application. | 5771           |
|  | 5.5                                        | 5.8  | 0.1  | Radiation and/or forced-air cooled HF triode of original Amperex design. Powdered glass dish-type base with extremely low lead inductance makes this tube ideally suited for almost any HF application.            | 5866<br>7986   |
|  | 5.0                                        | 6.3  | 0.16 | Radiation and/or forced-air cooled HF low drive triode of original Amperex design.                                                                                                                                 | 5867<br>5867 A |
|  | 8.0                                        | 11.0 | 0.35 | Radiation and/or forced-air cooled HF triode with rugged 100 watt filament. Of original Amperex design, for all heavy duty RF applications.                                                                        | 5868           |
|  | 11.0                                       | 16.0 | 0.3  | Water-cooled low drive HF triode. Rugged for HF heating application.                                                                                                                                               | 5923           |
|  | 11.0                                       | 16.0 | 0.3  | Forced-air cooled version of type 5923                                                                                                                                                                             | 5924           |
|  | 11.0                                       | 16.0 | 0.3  | Forced-air cooled triode for FM & TV transmitters. Brazed radiator shell & external surfaces silverplated throughout.                                                                                              | 5924A          |