



## POPULAR TRIODES

| Type Number        | Filament    |             | $\mu$      | Maximum Ratings |           |            |            | Typical Operation |            |             |             | Max. Freq. for Rull Ratings |
|--------------------|-------------|-------------|------------|-----------------|-----------|------------|------------|-------------------|------------|-------------|-------------|-----------------------------|
|                    | Volts       | Amps        |            | Plate Diss. kW  | Pg. W     | Eb, kV     | Ib, A      | Eb, kV            | Ib, IA     | Po, kW      | Gain dB     |                             |
| 8873               | 6.3         | 3.0         | 240        | 0.2             | 5         | 2.2        | 0.4        | 2.0               | 0.3        | 0.3         | 15.3        | 500                         |
| 3CX400A7 / 8874    | 6.3         | 3.0         | 240        | 0.4             | 5         | 2.2        | 0.4        | 2.0               | 0.3        | 0.3         | 15.3        | 500                         |
| 3CX800A7           | 13.5        | 1.5         | 200        | 0.8             | 4         | 2.3        | 0.6        | 2.2               | 0.5        | 0.8         | 15.1        | 350                         |
| <b>3CPX800A7</b>   | <b>13.5</b> | <b>1.5</b>  | <b>200</b> | <b>0.8</b>      | <b>4</b>  | <b>3.5</b> | <b>0.6</b> | <b>3.2</b>        | <b>0.4</b> | <b>0.95</b> | <b>15.9</b> | <b>500</b>                  |
| 3CX1200A7          | 7.5         | 21.0        | 200        | 1.2             | 50        | 5.0        | 0.8        | 3.6               | 0.7        | 1.5         | 12.5        | 110                         |
| 3CX1200D7 / YU-121 | 6.3         | 25.0        | 200        | 1.2             | 50        | 5.5        | 0.8        | 4.0               | 0.6        | 1.6         | 14.8        | 110                         |
| 3CX1200D7 / YU-181 | 6.3         | 25.0        | 200        | 1.2             | 50        | 5.5        | 0.8        | 4.0               | 0.6        | 1.6         | 14.8        | 110                         |
| <b>YC-236</b>      | <b>5.0</b>  | <b>10.5</b> | <b>200</b> | <b>1.5</b>      | <b>20</b> | <b>4.0</b> | <b>1.0</b> | <b>4.0</b>        | <b>0.9</b> | <b>2.0</b>  | <b>16.0</b> | <b>250</b>                  |
| 3CX1000A7 / 8283   | 5.0         | 30.5        | 200        | 1               | 45        | 3.5        | 1.0        | 3.5               | 0.9        | 2.1         | 13.1        | 220                         |
| 3CX1500A7 / 8877   | 5.0         | 10.5        | 200        | 1.5             | 20        | 4.0        | 1.0        | 3.5               | 1.0        | 2.1         | 15.1        | 250                         |
| 3CX5000A7          | 10.0        | 17.5        | 200        | 5               | 35        | 6.5        | 2.5        | 6.0               | 1.6        | 5.0         | 14.2        | 110                         |
| 3CX3000A / 8238    | 7.5         | 51.5        | 5          | 4               | 50        | 6.0        | 2.5        | 5.5               | 1.1        | 5.1         | 14.5        | 110                         |
| 3CX3000F1 / 8239   | 7.5         | 51.5        | 5          | 4               | 50        | 6.0        | 2.5        | 5.5               | 1.1        | 5.1         | 14.5        | 75                          |
| 3CX3000A7          | 7.5         | 51.5        | 160        | 4               | 225       | 5.0        | 2.5        | 4.8               | 1.5        | 5.5         | 11.0        | 110                         |
| 3CX3000F7          | 7.5         | 50.5        | 160        | 4               | 225       | 5.0        | 2.5        | 4.8               | 1.5        | 5.5         | 11.0        | 75                          |

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2501 NW 74 AVE MIAMI, FL 33122  
 FAX 305-471-6979 PH: 305-471-9091

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|                    |            |              |            |           |            |             |            |            |            |             |            |            |
|--------------------|------------|--------------|------------|-----------|------------|-------------|------------|------------|------------|-------------|------------|------------|
| 3CX2500F3 / 8251   | 7.5        | 51.5         | 20         | 4         | 150        | 6.0         | 2.5        | 6.0        | 2.1        | 10.0        | 18.7       | 75         |
| 3CX6000A7 / YU-148 | 7.0        | 78.0         | 200        | 6         | 225        | 7.0         | 3.5        | 5.7        | 2.5        | 10.0        | 12.2       | 110        |
| 3CX10,000A3 / 8159 | 7.5        | 99.0         | 20         | 10        | 250        | 7.0         | 5.0        | 7.0        | 4.0        | 22.4        | 15.3       | 160        |
| 3CX10,000A7 / 8160 | 7.5        | 100.0        | 200        | 10        | 500        | 9.0         | 4.0        | 7.6        | 3.7        | 22.5        | 11.7       | 160        |
| <b>3CX15,000A7</b> | <b>6.3</b> | <b>160.0</b> | <b>200</b> | <b>15</b> | <b>500</b> | <b>10.0</b> | <b>5.0</b> | <b>7.0</b> | <b>4.6</b> | <b>25.5</b> | <b>9.9</b> | <b>110</b> |
| 3CX20,000A7        | 6.3        | 160.0        | 200        | 20        | 500        | 10.0        | 5.0        | 7.8        | 4.2        | 27.5        | 10.8       | 110        |
| 3-500Z             | 5.0        | 14.6         | 130        | 0.5       | 20         | 4.0         | 0.4        | 3.0        | 0.4        | 0.74        | 14.0       | 110        |
| 3-1000Z            | 7.5        | 20.0         | 200        | 1         | 50         | 6.0         | 0.7        | 6.0        | 0.7        | 3.2         | 13.2       | 110        |
| 811A               | 6.3        | 4.0          |            | 60        | 8          | 1.5         | 0.175      | 1.5        | 0.16       | 0.16        | 13.0       | 30         |
| 572B               | 6.3        | 4.0          | 170        | 160       | 50         | 2.7         | 0.275      | 2.4        | 0.25       | 0.30        | 7.5        | 30         |

### TETRODES

| Type Number     | Filament |      | Maximum Ratings |         |         |        |       | Typical Operation |        |        |         | Max. Freq. for Full Ratings F <sub>1</sub> , MHz |
|-----------------|----------|------|-----------------|---------|---------|--------|-------|-------------------|--------|--------|---------|--|
|                 | Volts    | Amps | Plate Diss. kW  | Pg.1, W | Pg.2, W | Eb, kV | Ib, A | Eb, kV            | Ib, IA | Po, kW | Gain dB |  |
| 8122            | 13.5     | 1.3  | 0.4             | –       | 8       | 2.2    | 0.3   | 2.0               | 0.3    | 0.4    | –       | 500  |
| 8930            | 6.0      | 2.6  | 0.4             | 2       | 12      | 2.4    | 0.3   | 2.0               | 0.3    | 0.4    | 21.0    | 500  |
| 4CX250B / 7203  | 6.0      | 2.6  | 0.3             | 2       | 12      | 2.0    | 0.3   | 2.0               | 0.3    | 0.4    | 21.3    | 500  |
| 4CX250BC / 8957 | 6.0      | 2.4  | 0.3             | 2       | 12      | 2.0    | 0.3   | 2.0               | 0.3    | 0.4    | 21.3    | 500  |
| 4CX250FG / 8621 | 26.5     | 0.5  | 0.3             | 2       | 12      | 2.0    | 0.3   | 2.0               | 0.3    | 0.4    | 21.3    | 500  |
| 4CX250R / 7580W | 6.0      | 2.6  | 0.3             | 2       | 12      | 2.0    | 0.3   | 2.0               | 0.3    | 0.4    | 21.3    | 500  |
| 4CX300A / 8167  | 6.0      | 2.9  | 0.3             | 2       | 12      | 2.0    | 0.3   | 2.0               | 0.3    | 0.4    | 21.3    | 500  |
| 4CX350A /       | 6.0      | 2.9  | 0.4             | 0       | 8       | 2.5    | 0.3   | 2.2               | 0.3    | 0.4    | 20.5    | 110  |

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|                   |            |              |            |           |            |            |            |            |            |             |             |            |  |
|-------------------|------------|--------------|------------|-----------|------------|------------|------------|------------|------------|-------------|-------------|------------|--|
| 8321              |            |              |            |           |            |            |            |            |            |             |             |            |  |
| 4CX350AC / 8321A  | 6.0        | 2.9          | 0.4        | 0         | 8          | 2.5        | 0.3        | 2.2        | 0.3        | 0.4         | 20.5        | 110        |  |
| 4CX350F / 8322    | 26.5       | 0.7          | 0.4        | 0         | 8          | 2.5        | 0.3        | 2.2        | 0.3        | 0.4         | 20.5        | 110        |  |
| 4CX350FJ / 8904   | 26.5       | 0.7          | 0.4        | 0         | 8          | 2.5        | 0.3        | 2.2        | 0.3        | 0.4         | 20.5        | 110        |  |
| 4CX150A / 7034    | 6.0        | 2.6          | 0.3        | 2         | 12         | 2.0        | 0.3        | 2.0        | 0.3        | 0.4         | 21.3        | 150        |  |
| 8560AS            | 6.3        | 2.6          | 0.3        | 2         | 12         | 2.0        | 0.3        | 2.0        | 0.3        | 0.4         | 21.3        | 500        |  |
| 4CX300Y / 8561    | 6.0        | 3.5          | 0.4        | 1         | 8          | 2.0        | 0.4        | 2.0        | 0.4        | 0.6         | 21.9        | 110        |  |
| 4CX400A           | 6.3        | 3.2          | 0.4        | –         | –          | 2.5        | 0.4        | 2.5        | 0.27       | 0.4         | –           | 500        |  |
| 4CX600JB          | 6.0        | 5.4          | 0.6        | 1         | 15         | 3.0        | 0.6        | 2.8        | 0.6        | 1.0         | 20.0        | 30         |  |
| 4CX800A / GU-74B  | 12.6       | 3.6          | 0.8        |           |            | 2.5        | 0.8        | 3.2        | 0.63       | 0.8         |             | 150        |  |
| GU-84B / 4CX2500E | 27.0       | 3.7          | 2.5        | 1         | 30         | 2.2        | 2.0        | 2.0        | 1.25       | 1.5         | –           | 75         |  |
| 4CX800A / GU74B   | 12.6       | 3.6          | 0.8        | –         | –          | 2.5        | 0.8        | 3.2        | 0.63       | 0.8         | –           | 150        |  |
| 4CX1500B / 8660   | 6.0        | 10.0         | 1.5        | 1         | 12         | 3.0        | 0.9        | 2.9        | 0.7        | 1.1         | 28.6        | 110        |  |
| 4CX1000A / 8168   | 6.0        | 9.0          | 1.0        | 1         | 12         | 3.0        | 1.0        | 3.0        | 0.9        | 1.6         | 20.0        | 110        |  |
| 4CX1500A          | 5.0        | 38.5         | 1.5        | 25        | 75         | 5.0        | 1.0        | 4.0        | 0.8        | 2.5         | 28.4        | 150        |  |
| 4CX1600B          | 12.6       | 4.4          | 1.6        | –         | –          | 3.3        | 1.4        | 2.4        | 0.87       | 2.1         | –           | 250        |  |
| 4CX3000A / 8169   | 9.0        | 41.5         | 3.5        | 50        | 175        | 7.0        | 2.0        | 6.0        | 1.5        | 7.1         | 23.1        | 150        |  |
| <b>4CX3500A</b>   | <b>5.0</b> | <b>90.0</b>  | <b>3.5</b> | <b>50</b> | <b>165</b> | <b>5.5</b> | <b>2.0</b> | <b>5.0</b> | <b>1.3</b> | <b>5.3</b>  | <b>23.2</b> | <b>220</b> |  |
| 4CX5000A / 8170   | 7.5        | 75.0         | 5.0        | 75        | 250        | 7.5        | 3.0        | 7.0        | 2.2        | 12.5        | 20.7        | 110        |  |
| 4CX5000R / 8170W  | 7.5        | 75.0         | 5.0        | 75        | 250        | 7.5        | 3.0        | 7.0        | 2.2        | 12.5        | 20.7        | 110        |  |
| <b>4CX7500A</b>   | <b>7.0</b> | <b>110.0</b> | <b>7.5</b> | <b>50</b> | <b>165</b> | <b>7.5</b> | <b>3.0</b> | <b>7.0</b> | <b>2.4</b> | <b>13.0</b> | <b>20.1</b> | <b>220</b> |  |

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|------------------------------|------------|--------------|-------------|------------|------------|-------------|------------|-------------|------------|-------------|-------------|------------|
| 4CX10,000D /<br>8171         | 7.5        | 75.0         | 10.0        | 75         | 250        | 7.5         | 3.0        | 7.5         | 2.8        | 16.0        | 20.3        | 110        |
| 4CX12,000A /<br>8989         | 6.5        | 120.0        | 12.0        | 150        | 300        | 10.0        | 3.5        | 10.0        | 2.8        | 22.5        | 19.1        | 220        |
| 4CX20,000A /<br>8990         | 10.0       | 140.0        | 20.0        | 200        | 450        | 10.0        | 5.0        | 9.0         | 4.1        | 28.8        | 19.5        | 110        |
| <b>4CX15,000A /<br/>8281</b> | <b>6.3</b> | <b>160.0</b> | <b>15.0</b> | <b>200</b> | <b>450</b> | <b>10.0</b> | <b>6.0</b> | <b>10.0</b> | <b>4.6</b> | <b>36.5</b> | <b>22.2</b> | <b>110</b> |
| 9010 / YC-130                | 7.5        | 160.0        | 18.0        | 200        | 450        | 10.0        | 5.0        | 10.0        | 4.6        | 36.5        | 22.2        | 110        |
| 4-250A                       | 5.0        | 14.5         | .25         | 10         | 35         | 4.0         | 0.35       | 3.0         | 0.31       | 1.0         | –           | 110        |
| 4-400A                       | 5.0        | 14.7         | .4          | 10         | 35         | 4.0         | 0.35       | 3.0         | 0.35       | 1.1         | –           | 110        |
| 4-1000A                      | 7.5        | 21.3         | 1.0         | 25         | 75         | 6.0         | 0.7        | 6.0         | 0.7        | 3.4         | –           | 110        |

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