

# Taylor

CUSTOM  
BUILT

# Tubes

## 822

200 WATTS PLATE DISSIPATION

## \$18.50

1000 WATTS AUDIO OUTPUT  
IN CLASS B AUDIO

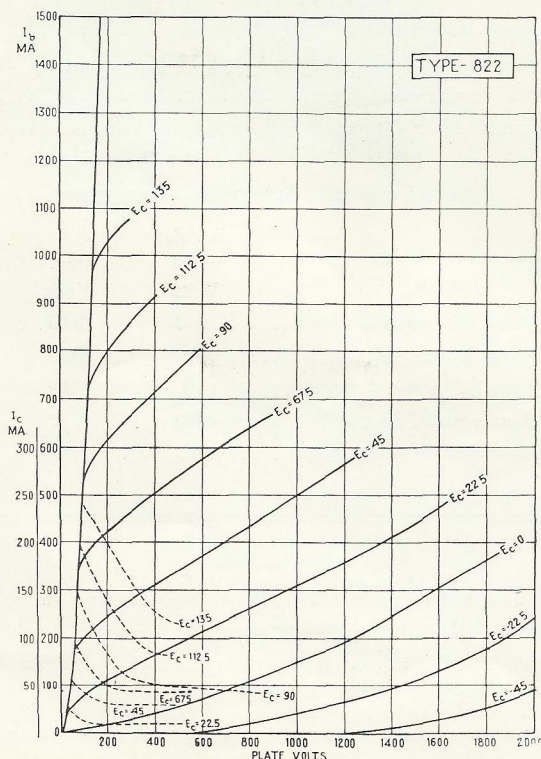


An unusually efficient and rugged Tube especially designed for peak performance in Class B Audio and for all R.F. services on frequencies below 8 MC. Widely used in Commercial Services and in Diathermy apparatus where long-life under abusive conditions demands a Tube that "can take it." By far the most efficient tube available for 75 and 160 Meter Transmitters.

### CLASS B AUDIO DATA

The chart below gives the max. average value as would be indicated on the plate current meter with sine wave input. For the same peak output with voice input the max. average plate current reading will be approximately 50 to 60 per cent of this value.

| Supply Voltage<br>↓ | 400                      | 500                     | 750                     | 1000                    | Audio Watts<br>←Output                                |
|---------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------------------------------------|
| 3000                |                          | 32000<br>230 ma.<br>2.6 | 21500<br>340 ma.<br>4.6 | 16000<br>500 ma.<br>8.0 | ←Plate to Plate load<br>←Max. Av. Ip.<br>←Watts drive |
| 2500                |                          | 22000<br>280 ma.<br>3.5 | 14500<br>410 ma.<br>6.0 | 10500<br>560 ma.<br>8.5 | ←Plate to Plate load<br>←Max. Av. Ip.<br>←Watts drive |
| 2000                | 16800<br>285 ma.<br>3.25 | 13000<br>360 ma.<br>4.8 | 8800<br>525 ma.<br>7.4  |                         | ←Plate to Plate load<br>←Max. Av. Ip.<br>←Watts drive |
| 1500                | 9000<br>390 ma.<br>4.4   | 7100<br>500 ma.<br>6.7  |                         |                         | ←Plate to Plate load<br>←Max. Av. Ip.<br>←Watts drive |



### GENERAL CHARACTERISTICS

|                               |     |
|-------------------------------|-----|
| Filament Volts .....          | 10  |
| Filament Current, amps.....   | 4   |
| Amplification Factor .....    | 30  |
| Plate Dissipation, watts..... | 200 |

### Interelectrode Capacities

|                          |      |
|--------------------------|------|
| Grid-Plate, mmf.....     | 13.5 |
| Grid-Filament, mmf.....  | 8.5  |
| Plate-Filament, mmf..... | 2.1  |

### Overall Dimensions

|                               |             |
|-------------------------------|-------------|
| Maximum Length, inches.....   | 9           |
| Maximum Diameter, inches..... | 2 5/8       |
| Standard 50 Watt Base         | Nonex Glass |

### CLASS C TELEGRAPHY

#### Maximum Ratings

|                               |      |
|-------------------------------|------|
| D. C. Plate Volts .....       | 2500 |
| D. C. Plate Current, ma.....  | 300  |
| D. C. Grid Current, ma.....   | 60   |
| D. C. Grid Volts .....        | 400  |
| Plate Dissipation, watts..... | 200  |

#### Typical Operating Conditions

|                                     |      |      |
|-------------------------------------|------|------|
| D. C. Plate Volts.....              | 2000 | 2500 |
| D. C. Plate Current, ma.....        | 300  | 300  |
| D. C. Grid Current, ma.....         | 51   | 51   |
| D. C. Grid Bias Volts.....          | -136 | -190 |
| From Grid Leak of, ohms.....        | 2670 | 3730 |
| Or { Fixed Supply of, volts.....    | -75  | -100 |
| From { Plus Grid Leak of, ohms..... | 1200 | 1765 |
| Plate Dissipation, watts.....       | 140  | 150  |
| Power Output, watts.....            | 460  | 600  |
| Driving Power, watts.....           | 14   | 17   |

### CLASS C TELEPHONY

#### Maximum Ratings

|                               |      |
|-------------------------------|------|
| D. C. Plate Volts .....       | 1000 |
| D. C. Plate Current, ma.....  | 250  |
| D. C. Grid Current, ma.....   | 60   |
| D. C. Grid Volts .....        | 400  |
| Plate Dissipation, watts..... | 135  |

#### Typical Operating Conditions

|                                     |      |      |
|-------------------------------------|------|------|
| D. C. Plate Volts .....             | 1750 | 2000 |
| D. C. Plate Current, ma.....        | 250  | 250  |
| D. C. Grid Current, ma.....         | 45   | 43   |
| D. C. Grid Bias Volts.....          | 151  | 195  |
| From Grid Leak of, ohms.....        | 3350 | 4500 |
| Or { Fixed Supply of, volts.....    | -65  | -75  |
| From { Plus Grid Leak of, ohms..... | 1900 | 2800 |
| Plate Dissipation, watts.....       | 92   | 95   |
| Power Output, watts.....            | 345  | 405  |
| Driving Power, watts.....           | 12.5 | 13.7 |

### CLASS B AUDIO

#### Typical Operating Conditions for Two Tubes

|                                |      |      |       |       |
|--------------------------------|------|------|-------|-------|
| D. C. Plate Volts .....        | 1500 | 2000 | 2500  | 3000  |
| D. C. Plate Current, ma.....   | 500  | 500  | 500   | 450   |
| D. C. Grid Bias Volts.....     | -35  | -45  | -67.5 | -80   |
| Power Output, watts.....       | 525  | 720  | 900   | 1000  |
| Driving Power, watts.....      | 7    | 7.2  | 7.4   | 8     |
| Plate to Plate Load, ohms..... | 6800 | 9500 | 12000 | 16000 |
| Peak Grid to Grid Volts.....   | 286  | 306  | 351   | 362   |