



845

845

MODULATOR, A-F POWER AMPLIFIER

| | | |
|-------------------------------------|--------------------|-------------------|
| Filament | Thoriated Tungsten | |
| Voltage | 10 | a-c or d-c volts |
| Current | 3.25 | amp. |
| Amplification Factor | 5.3 | |
| Direct Interelectrode Capacitances: | | |
| Grid to Plate | 13.5 | μf |
| Grid to Filament | 6 | μf |
| Plate to Filament | 6.5 | μf |
| Maximum Overall Length | | 7-7/8" |
| Maximum Diameter | | 2-5/16" |
| Bulb | | T-18 |
| Base | | Jumbo 4-Large Pin |
| RCA Socket | | Type UT-541 ← |

MAXIMUM RATINGS and TYPICAL OPERATING CONDITIONS**A-F POWER AMPLIFIER & MODULATOR - Class A₁**

| | | | | |
|-----------------------------|------|-----------|---------|------------------|
| D-C Plate Voltage | | 1250 max. | volts | |
| Plate Dissipation | | 100 max. | watts ← | |
| Typical Operation: | | | | |
| D-C Plate Voltage | 750 | 1000 | 1250 | volts ← |
| D-C Grid Voltage* | -98 | -145 | -195 | volts ← |
| Peak A-F Grid Voltage | 93 | 140 | 190 | volts ← |
| D-C Plate Current | 95 | 90 | 80 | ma. |
| Transconductance | 3100 | 3100 | 3100 | μmhos |
| Plate Resistance | 1700 | 1700 | 1700 | ohms |
| Load Resistance | 3400 | 6000 | 11000 | ohms |
| U.P.O. (5% second harmonic) | 15 | 24 | 30 | watts |

NOTE: In cases where the input circuit to the 845 is resistance coupled, the resistance in the grid circuit should not exceed 0.5 megohm when cathode bias is used. Without cathode bias, the d-c resistance in the grid-coupling circuit should not exceed 0.1 megohm.

A-F POWER AMPLIFIER & MODULATOR - Class AB₁

| | | | |
|---|------|-----------|---------------|
| D-C Plate Voltage | | 1250 max. | volts |
| D-C Grid Voltage | | -400 max. | volts |
| D-C Plate Current | | 120 max. | ma. |
| Plate Input | | 150 max. | watts |
| Plate Dissipation | | 100 max. | watts ← |
| Typical Operation: | | | |
| <i>Unless otherwise specified, values are for 2 tubes</i> | | | |
| D-C Plate Voltage | 1000 | 1250 | volts |
| D-C Grid Voltage* | -175 | -225 | volts |
| Peak A-F Grid-to-Grid Voltage | 340 | 440 | volts |
| Zero-Signal D-C Plate Current | 40 | 40 | ma. |
| Max.-Signal D-C Plate Current | 230 | 240 | ma. |
| Load Resistance (per tube) | 1150 | 1650 | ohms |
| Effective Load Res. (plate to plate) | 4600 | 6600 | ohms |
| Max.-Signal Power Output | 75 | 115 | approx. watts |

* With a-c filament supply.

OUTLINE DIMENSIONS, TUBE SYMBOL, and SOCKET CONNECTIONS for the 845 are the same as for the 211.

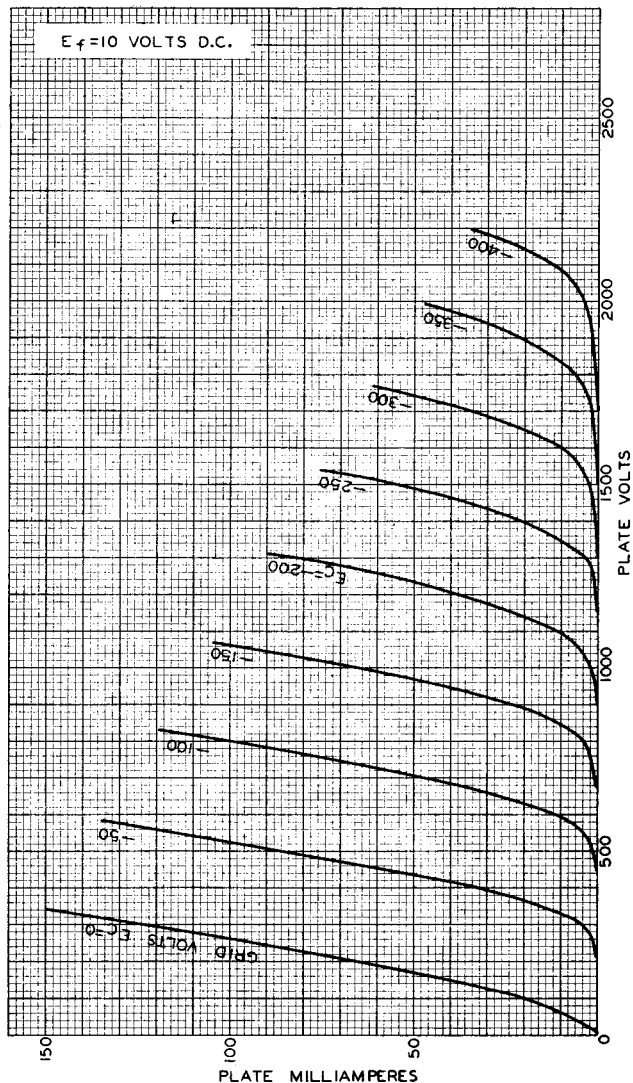
← Indicates a change.

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AVERAGE PLATE CHARACTERISTICS



NOV. 1, 1933

RCA RADOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

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