



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:

Unless otherwise specified, values are for 2 tubes

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.

April 15, 1940

RCA RADIONRON DIVISION
RCA MANUFACTURING COMPANY, INC.

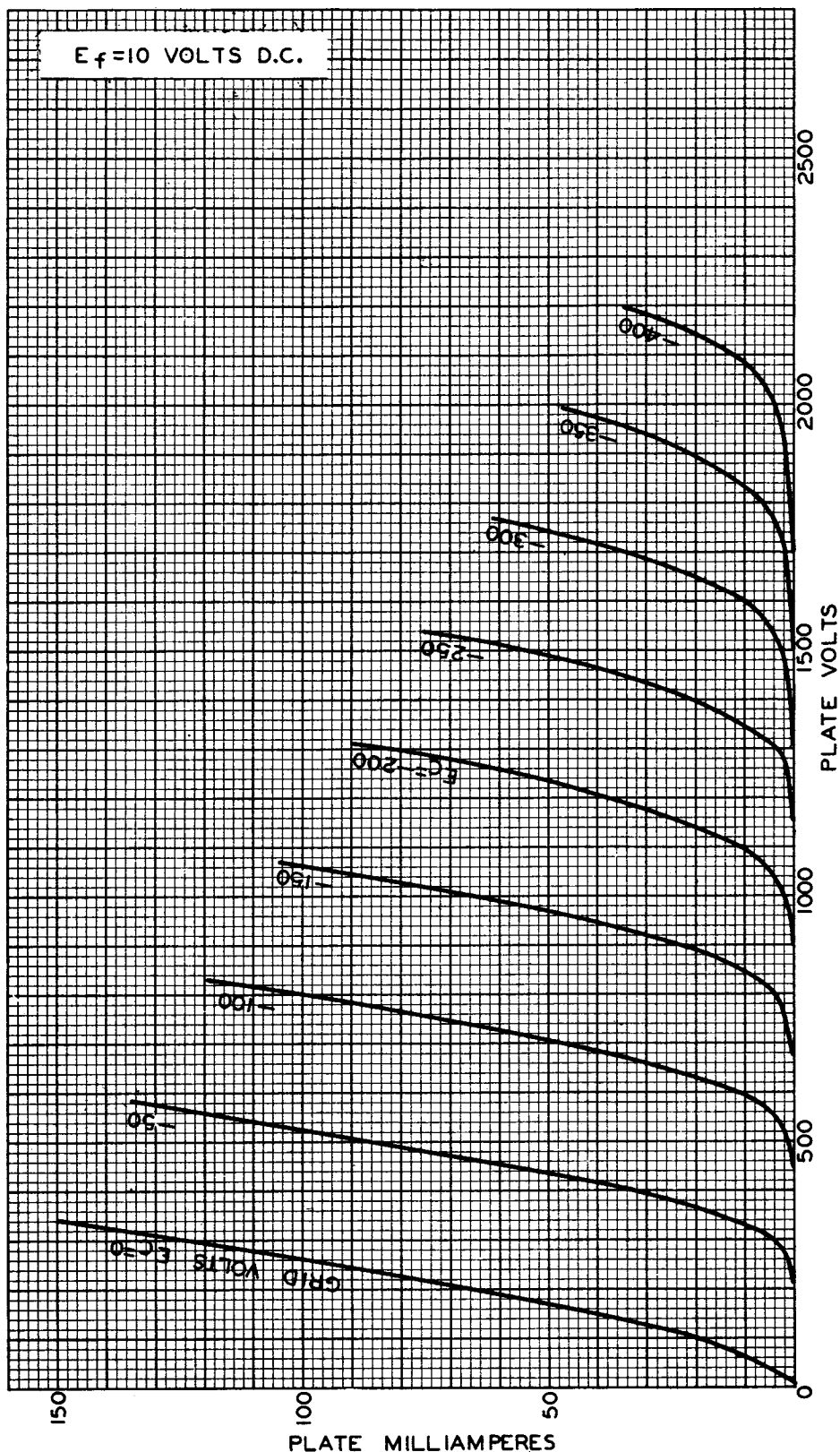
DATA

845



845

AVERAGE PLATE CHARACTERISTICS



NOV. 1, 1933

RCA RADOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

92C-5310