

MODULATOR, A-F POWER AMPLIFIER

Filament Voltage	Thoriated Tungsten	a-c or d-c volts
Current	10	amp.
Amplification Factor	3.25	
Direct Interelectrode Capacitances:	5.3	
Grid to Plate	13.5	
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
D-C Grid Voltage*	-98	-145	-195
Peak A-F Grid Voltage	93	140	190
D-C Plate Current	95	90	80
Transconductance	3100	3100	3100
Plate Resistance	1700	1700	1700
Load Resistance	3400	6000	11000
U.P.O. (5% second harmonic)	15	24	30

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.

AVERAGE PLATE CHARACTERISTICS

$E_f = 10$ VOLTS D.C.

2500

2000

1500

1000

500

-400

-350

-300

-250

$E_c = 200$

-150

-100

-50

GRID VOLTS $E_c = 0$

