

MAXIMUM RATINGS

	Class B Tele- phony*	Class C Tele- phony*	Class C Tele- graphy§	
D-C PLATE VOLTAGE	450	350	450	Volts
D-C GRID VOLTAGE	—	-200	-200	Volts
D-C PLATE CURRENT	30	40	40	Milliamperes
D-C GRID CURRENT	—	7.5	7.5	Milliamperes
PLATE INPUT	—	14	18	Watts
PLATE DISSIPATION	15	10	15	Watts

RCA-844

Screen-Grid R-F Power Amplifier

RCA-844 is a screen-grid transmitting tube of the heater-cathode type for use as a radio-frequency amplifier and multiplier. The 844 may be operated at maximum rated conditions at frequencies as high as 8 megacycles.

CHARACTERISTICS

Heater Volts (a-c or d-c)	2.5	Grid-Plate Capacitance (With external shielding)	0.15 max. μf
Heater Amperes	2.5	Input Capacitance	9.5 μf
Amplification Factor	75	Output Capacitance	7.5 μf
Transconductance (For plate current of 13 ma.) Micromhos	600	Bulb	ST-16
Maximum Overall Length	5 $\frac{3}{16}$ "	Cap	Medium Metal
Maximum Diameter	2 $\frac{1}{16}$ "	Base	Medium 5-Pin

MAXIMUM RATINGS

	Class B Tele- phony*	Class C Tele- phony*	Class C Tele- graphy§	
D-C PLATE VOLTAGE	500	500	500	Volts
D-C SCREEN VOLTAGE	175	175	175	Volts
D-C GRID VOLTAGE	—	-200	-200	Volts
D-C PLATE CURRENT	25	25	30	Milliamperes
D-C GRID CURRENT	—	5	5	Milliamperes
SCREEN INPUT	3	2	3	Watts
PLATE DISSIPATION	15	10	15	Watts

* Carrier conditions per tube for use with a max. modulation factor of 1.0.

§ Key-down conditions per tube without modulation. Modulation essentially negative may be used if the positive peak of the audio-frequency envelope does not exceed 115% of the carrier conditions.

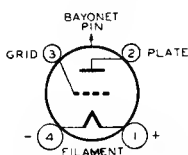
† Averaged over any audio-frequency cycle of sine-wave form.

INSTALLATION AND APPLICATION

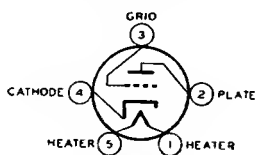
The plate of the 841, 842, 843, or 844 shows no color at the maximum plate-dissipation rating for each class of service.

For high-frequency operation of the 841, 843, and 844, see page 144.

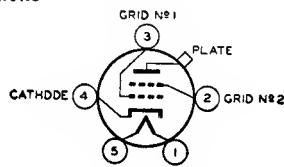
Top Views of Socket Connections



RCA-841 and 842



RCA-843



RCA-844