

GENERAL DATA	
Electrical:	
Filament, Thoriated-Tungsten:	
Voltage	. ac or dc volts amp μμf
Grid to Filament 5.4 Plate to Filament 4.8	$ \begin{array}{cccc}  & \mu \mu \uparrow \\  & \mu \mu f \end{array} $
Mechanical:	
Mounting Position Vertical, base d with pins 1 and Maximum Overall Length	3 in vertical plans 7-7/8" 2-5/16" T-18
Pin 1-Grid Pin 2-Filament  GA-PLANE OF ELECTRODES	Pin 3-Plate Pin 4-Filament
AF POWER AMPLIFIER & MODULATOR	Class A
Maximum CCS® Ratings, Absolute Values:	•
DC PLATE VOLTAGE	1250 max. volts 75 max. watts
Typical Operation and Characteristics:	
DC Plate Voltage       750       1000         DC Grid Voltage       -46       -61         Peak AF Grid Voltage       41       53         DC Plate Current       34       53         Plate Resistance       4400       3800         Transconductance       2750       3150         Load Resistance       8800       7600         2nd Harmonic Distortion       5       5         Power Output       5.6       12	1250 volts -80 volts 75 volts 60 ms 3600 ohms 3300 µmhos 9200 ohms 5 % 19.7 watts
AF POWER AMPLIFIER & MODULATOR-	-Class B
Maximum CCS® Ratings, Absolute Values: DC PLATE VOLTAGE	1250 max. volts
•,#: See nextroage.	← Indicates a change.



MAXSIGNAL DC PLATE CURRENT*         175 max.           MAXSIGNAL PLATE INPUT*         220 max. wat           PLATE DISSIPATION*         100 max. wat           Typical Operation:           Values are for 2 tubes           DC Plate Voltage         1000 1250 vol           DC Grid Voltage*         -77 -100 vol           Peak AF Grid-to-Grid Voltage         380 410 vol           Zero-Signal DC Plate Current         20 20           MaxSignal DC Plate Current         320 320           Effective Load Resistance         (plate-to-plate)         6900 9000 oh           MaxSignal Driving         Power (Approx.)         7.5 8 wat           MaxSignal Power         Output (Approx.)         200 260 wat           RF POWER AMPLIFIER—Class B Telephony           Carrier conditions per tube for use with a max. modulation factor of in the properties of th
Palues are for 2 tubes  DC Plate Voltage
DC Plate Voltage
DC Grid Voltage#
(plate-to-plate)
Power (Approx.) 7.5 8 wat Max.—Signal Power Output (Approx.)
Output (Approx.)
Carrier conditions per tube for use with a max. modulation factor of 1  Maximum CCS® Ratings, Absolute Values:  DC PLATE VOLTAGE
Maximum CCS® Ratings, Absolute Values:           DC PLATE VOLTAGE         1250 max. vol           DC PLATE CURRENT         150 max.           PLATE INPUT         150 max. wat
DC PLATE VOLTAGE         1250 max. vol           DC PLATE CURRENT         150 max.           PLATE INPUT         150 max. wat
DC PLATE VOLTAGE         1250 max. vol           DC PLATE CURRENT         150 max.           PLATE INPUT         150 max. wat
premie broommitore e e e e e e e e e e e 100 max. Wat
Typical Operation:
DC Plate Voltage
PLATE-MODULATED RF POWER AMPLIFIER-Class C Telephony
Carrier conditions per tube for use with a max. modulation factor of 1
Maximum CCS® Ratings. Absolute Values:
DC PLATE VOLTAGE





PLATE DISSIPATION				 67	max. watts
Typical Operation:					
DC Plate Voltage			750	1000	volts
DC Grid Voltage				-260	volts
Peak RF Grid Voltage				410	volts
DC Plate Current			150	150	ma
DC Grid Current (Approx.)			35	35	ma
Driving Power (Approx.)			12	14	watts
Power Output (Approx.)			65	100	watts

### RF POWER AMPLIFIER & OSCILLATOR—Class C Telegraphy

Key-down conditions per tube without modulation DD

#### Maximum CCS Ratings. Absolute Values:

DC PLATE VOLTAGE							1250	max.	volts
DC GRID VOLTAGE.							-400	max.	volts
DC PLATE CURRENT							175	max.	ma
DC GRID CURRENT.							50		
PLATE INPUT							220	max.	watts
PLATE DISSIPATION							100	max.	watts

### Typical Operation:

DC Plate Voltage	750	1000	1250	volts
DC Grid Voltage	-135	<b>-1</b> 75	-225	voits
Peak RF Grid Voltage	275	315	375	volts
DC Plate Current	150	150	150	ma
DC Grid Current (Approx.)	18	18	18	ma
Driving Power (Approx.)	5	6	7	watts
Power Output (Approx.)	65	100	130	watts
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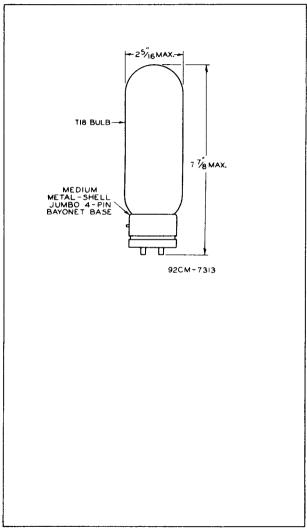
Continuous Commercial service.

Data on operating frequencies for the 211 are given on the sheet TRANS. TUBE RATINGS vs FREQUENCY.

For effect of load resistance on grid current and driving power, refer to TUBE RATINGS—Grid Current and Driving Power in General Section.

Modulation essentially negative may be used if the positive peak of the audio-frequency envelope does not exceed 115% of the carrier conditions.

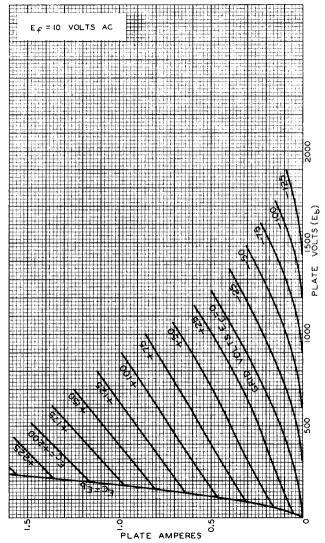


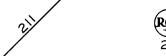


MAY 1, 1950



### AVERAGE PLATE CHARACTERISTICS





# TYPICAL CHARACTERISTICS

