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## AMPLIFIER TRIODE

<b>Electrical;</b>		<u>GENERAL DATA</u>	
<b>Filament:</b>			
Voltage . . . . .	4.5	. . . . .	volts
Current . . . . .	1.1	. . . . .	amp
Amplification Factor . .	8.5		
<b>Direct Interelectrode Capacitances (Approx.):</b>			
Grid to Plate . . . . .	8.3	. . . . .	$\mu\text{f}$
Grid to Cathode . . . . .	4.0	. . . . .	$\mu\text{f}$
Plate to Cathode . . . . .	3.0	. . . . .	$\mu\text{f}$

<b>Mechanical;</b>	
Mounting Position . . . . .	Vertical, or Horizontal with Plane of Electrodes Vertical
Maximum Overall Length . . . . .	5-5/8"
Maximum Diameter . . . . .	2-3/16"
Bulb . . . . .	S-17
Base . . . . .	Medium 4-Pin Bayonet

AF POWER AMPLIFIER AND MODULATOR - Class A**Maximum Ratings, Absolute Values:**

DC PLATE VOLTAGE . . . . .	350 max.	volts
PLATE DISSIPATION . . . . .	7.5 max.	watts

**Typical Operation:**

DC Plate Voltage . . . . .	350	. .	volts
DC Grid Voltage* . . . . .	-30	. .	volts
Peak AF Grid Voltage (Approx.) . . . . .	30	. .	volts
DC Plate Current . . . . .	9	. .	ma.
Plate Resistance . . . . .	8700	. .	ohms
Transconductance . . . . .	980	. .	$\mu\text{mhos}$
Load Resistance . . . . .	18000	. .	ohms
Power Output (5% second harmonic) . . . . .	0.6	. .	watts

RF POWER AMPLIFIER - Class B Telephony

Carrier conditions per tube for use with  
a maximum modulation factor of 1.0

**Maximum Ratings, Absolute Values:**

DC PLATE VOLTAGE . . . . .	350 max.	volts
DC PLATE CURRENT . . . . .	40 max.	ma.
PLATE INPUT . . . . .	14 max.	watts
PLATE DISSIPATION . . . . .	10 max.	watts

**Typical Operation:**

DC Plate Voltage . . . . .	350	. .	volts
DC Grid Voltage* . . . . .	-40	. .	volts
Peak RF Grid Voltage . . . . .	90	. .	volts
DC Plate Current . . . . .	32	. .	ma.

\* With dc filament excitation.

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## AMPLIFIER TRIODE

Driving Power (Approx.) # . . . . .	0.1 . . watt
Power Output . . . . .	2 . . watts

PLATE-MODULATED RF POWER AMPLIFIER - Class C Telephony

Carrier conditions per tube for use with a  
maximum modulation factor of 1.0

**Maximum Ratings, Absolute Values:**

DC PLATE VOLTAGE . . . . .	350 max. volts
DC GRID VOLTAGE. . . . .	-150 max. volts
DC PLATE CURRENT . . . . .	40 max. ma.
DC GRID CURRENT. . . . .	10 max. ma.
PLATE INPUT. . . . .	14 max. watts
PLATE DISSIPATION. . . . .	7 max. watts

**Typical Operation:**

DC Plate Voltage . . . . .	300 . . volts
DC Grid Voltage* . . . . .	-100 . . volts
Peak RF Grid Voltage (Approx.) . . . . .	140 . . volts
DC Plate Current . . . . .	30 . . ma.
DC Grid Current. . . . .	2 . . ma.
Driving Power (Approx.) . . . . .	0.3 . . watt
Power Output (Approx.) . . . . .	4 . . watts

RF POWER AMPLIFIER & OSCILLATOR - Class C Telegraphy

Key-down conditions per tube without modulation##

**Maximum Ratings, Absolute Values:**

DC PLATE VOLTAGE . . . . .	350 max. volts
DC GRID VOLTAGE. . . . .	-150 max. volts
DC PLATE CURRENT . . . . .	40 max. ma.
DC GRID CURRENT. . . . .	10 max. ma.
PLATE INPUT. . . . .	14 max. watts
PLATE DISSIPATION. . . . .	10 max. watts

**Typical Operation:**

DC Plate Voltage . . . . .	350 . . volts
DC Grid Voltage* . . . . .	-80 . . volts
Peak RF Grid Voltage . . . . .	130 . . volts
DC Plate Current . . . . .	35 . . ma.
DC Grid Current. . . . .	2 . . ma.
Driving Power (Approx.) . . . . .	0.25 . . watt
Power Output (Approx.) . . . . .	6 . . watts

\* With dc filament excitation.

# At crest of af cycle with modulation factor of 1.

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

Data on operating frequencies for the 5556 are given on the sheet TRANS. TUBE RATINGS vs FREQUENCY.



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