



5556

AMPLIFIER TRIODE

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GENERAL DATA**Electrical:****Filament:**

Voltage	4.5	volts
Current	1.1	amp

Amplification Factor 8.5

Direct Interelectrode Capacitances (Approx.):

Grid to Plate	8.3	μ uf
Grid to Cathode	4.0	μ uf
Plate to Cathode	3.0	μ uf

Mechanical:

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	μ 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.

MAY 1, 1946

TUBE DIVISION

TENTATIVE DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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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.

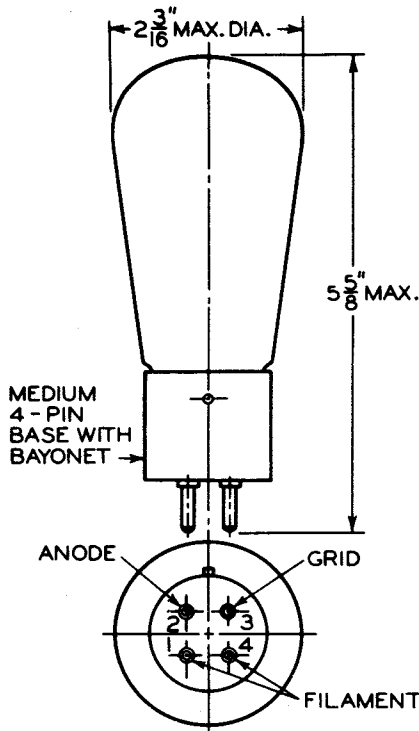
Data on operating frequencies for the 5556 are given
on the sheet TRANS. TUBE RATINGS vs FREQUENCY.



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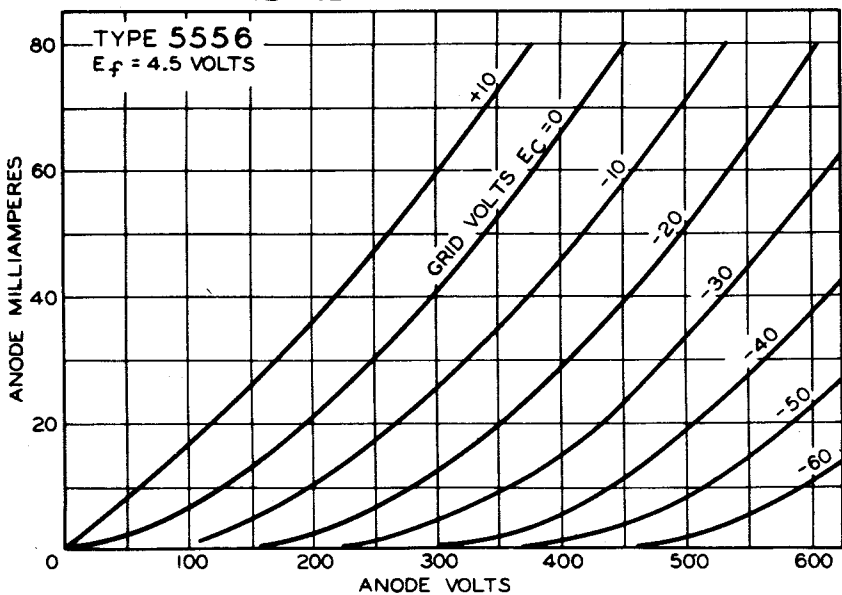
AMPLIFIER TRIODE

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AVERAGE ANODE CHARACTERISTICS



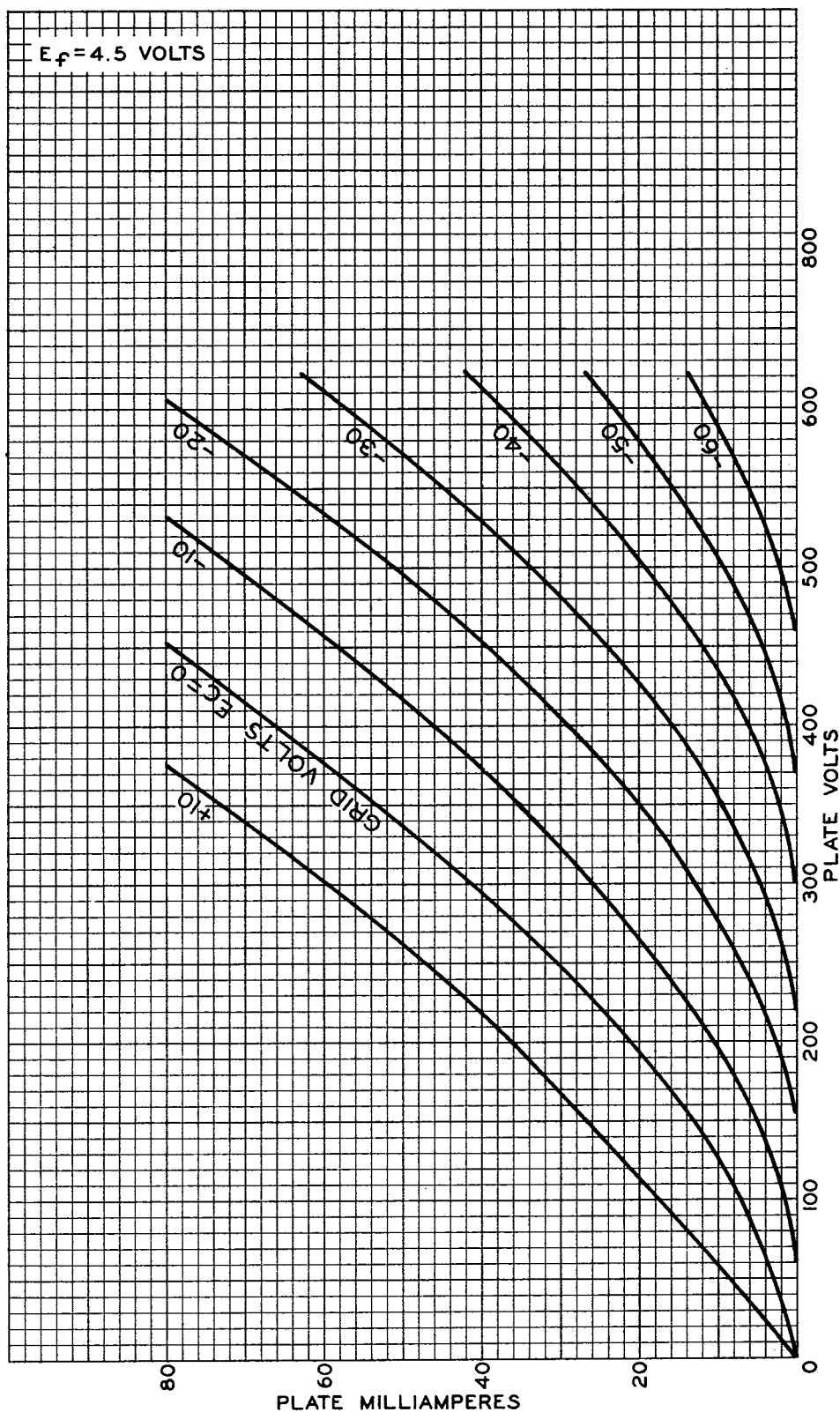
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AVERAGE PLATE CHARACTERISTICS



TUBE DIVISION

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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