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POWER TRIODE*Useful at frequencies up to 30 Mc*

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GENERAL DATA**Electrical:**

Filament, Thoriated Tungsten:

Voltage 4.5 ac or dc volts

Current 1.1 amp

Amplification Factor, for

plate volts = 350,

grid volts = -20, and

plate ma = 19 8.5

Direct Interelectrode Capacitances:

Grid to plate 6.7 μf Grid to filament. 2.3 μf Plate to filament 2.2 μf **Mechanical:**

Mounting Position Vertical, base down or up, or

Horizontal with pins 1 and 4 in vertical plane

Maximum Overall Length. 4-1/2"

Maximum Diameter. 1-5/8"

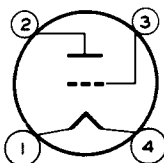
Weight (Approx.). 2 oz

Base. Medium-Shell Small 4-Pin

with Bayonet (JETEC No. A4-10)

Basing Designation for BOTTOM VIEW. 4D

Pin 1 - Filament



Pin 3 - Grid

Pin 2 - Plate

Pin 4 - Filament

AF POWER AMPLIFIER & 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 (Approx.). 8700 ohms

Load Resistance 18000 ohms

Second Harmonic Distortion. 5 %

Power Output. 0.6 watt

RF POWER AMPLIFIER -- Class B Telephony*Carrier conditions per tube for use with a max. modulation factor of 1.0***Maximum Ratings, Absolute Values:**

DC PLATE VOLTAGE. 350 max. volts

•: See next page.

← Indicates a change.

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POWER TRIODE

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
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 max. 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 (Approx.)	2	ma
Driving Power (Approx.)	0.3	watt
Power Output (Approx.)	4	watts

RF POWER AMPLIFIER & OSCILLATOR -- Class C Telegraphy[□]
and**RF POWER AMPLIFIER -- Class C FM Telephony****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

[•] With dc filament excitation.

^{#, □}: See next page.



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POWER TRIODE

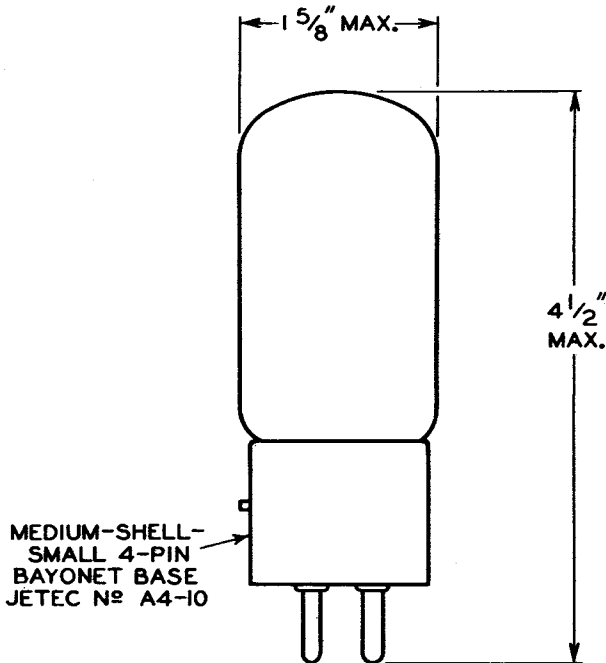
DC Plate Current	35	ma
DC Grid Current (Approx.)	2	ma
Driving Power (Approx.)	0.25	watt
Power Output (Approx.)	6	watts

At crest of af cycle with modulation factor of 1.

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

MAXIMUM RATINGS vs OPERATING FREQUENCY

FREQUENCY	6	15	30	Mc
MAXIMUM PERMISSIBLE PERCENTAGE OF MAXIMUM RATED PLATE VOLTAGE AND PLATE INPUT:				
Class B Telephony	100	85	70	%
Class C Telephony	100	75	50	%
Class C Telegraphy	100	75	50	%



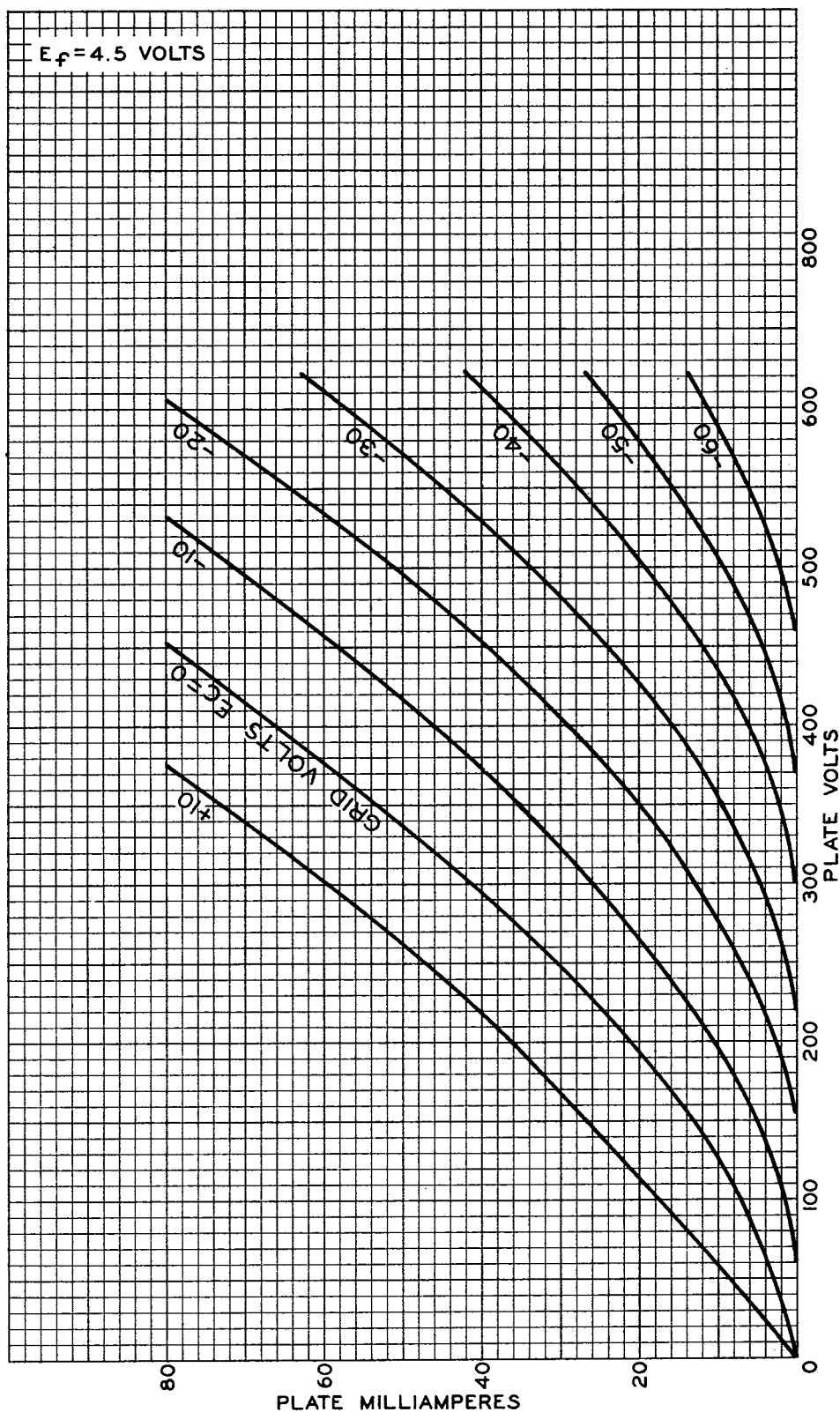
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AVERAGE PLATE CHARACTERISTICS



TUBE DIVISION

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6718RI