



12SX7-GT

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TWIN-TRIODE AMPLIFIER

For use with 12-cell storage-battery supply

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage. 12.6 ac or dc volts

Current. 0.3 amp

Direct Interelectrode Capacitances (Approx.):⁰

	<u>Triode Unit No.1</u>	<u>Triode Unit No.2</u>	
Grid to Plate.	3.6	3.6	μmf
Grid to Cathode.	3.0	2.8	μmf
Plate to Cathode.	0.8	1.2	μmf

Mechanical:

Mounting Position. Any

Maximum Overall Length 3-5/16"

Maximum Seated Length. 2-3/4"

Maximum Diameter 1-5/16"

Bulb T-9

Base Intermediate Shell Octal 8-Pin

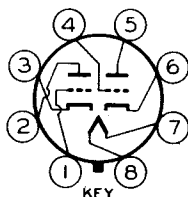
Basing Designation for BOTTOM VIEW 8BD

Pin 1-Grid of
Unit No.2

Pin 2-Plate of
Unit No.2

Pin 3-Cathode of
Unit No.2

Pin 4-Grid of
Unit No.1



Pin 5-Plate of
Unit No.1

Pin 6-Cathode of
Unit No.1

Pin 7-Heater

Pin 8-Heater

CLASS A₁ AMPLIFIER

Values are for each unit

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. 300 max. volts

GRID VOLTAGE:

Negative bias value. 50 max. volts

Positive bias value. 0 max. volts

CATHODE CURRENT. 20 max. ma.

PLATE DISSIPATION. 2.5 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode 90 max. volts

Heater positive with respect to cathode 90 max. volts

Typical Operation and Characteristics:

Plate Voltage. 26.5 90 250 volts

Grid Voltage:

From a fixed supply of , - 0 -8 volts

From a grid resistor of 0.05 - - megohm

Amplification Factor 21 20 20

Plate Resistance 11500 6700 7700 ohms

⁰ With no external shield.

JUNE 20, 1946

TUBE DIVISION

TENTATIVE DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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Transconductance	1800	3000	2600	μ mhos
Plate Current.	1.8	10	9.0	ma.

Maximum Circuit Values (for maximum rated conditions):

Grid-Circuit Resistance per unit. 1.0 max. megohm

Typical Operation with Resistance Coupling:

See RESISTANCE-COUPLED AMPLIFIER CHART, Type 6F8-G.

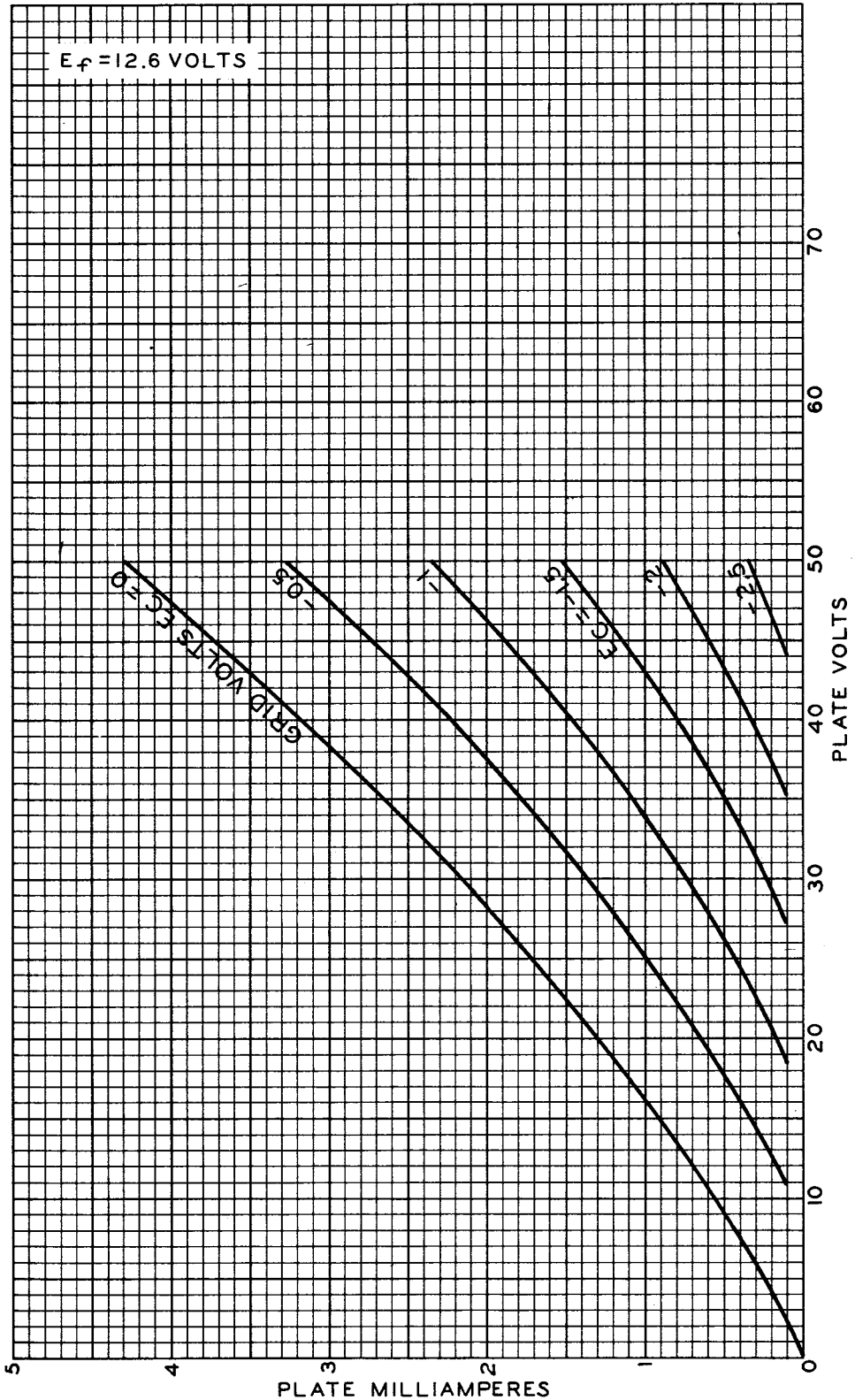
*The curves under Types 6J5 and 6SN7-GT
also apply to each unit of the
12SX7-GT*



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AVERAGE PLATE CHARACTERISTICS EACH TRIODE UNIT

12SX7-GT



JULY 11, 1946

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6782