



IU4

SHARP-CUTOFF PENTODE

MINIATURE TYPE

IU4

GENERAL DATA

Electrical:

Filament, Coated:

Voltage 1.4 dc volts

Current 0.05 amp

Direct Interelectrode Capacitances:

Grid No.1 to plate^o 0.01 max. μf ←Grid No.1 to filament (-) &
grid No.3 & internal shield,
and grid No.2[•] 3.6 μf Plate to filament (-) &
grid No.3 & internal shield,
and grid No.2[•] 7.5 μf Characteristics, Class A₁ Amplifier:

Plate Voltage 90 volts

Grid-No.2 Voltage 90 volts

Grid-No.1 Voltage 0 volts

Plate Resistance (Approx.) 1 megohm ←

Transconductance 900 μmhos

Plate Current 1 ma ←

Grid-No.2 Current 0.5 ma ←

Grid-No.1 Voltage (Approx.) for
transconductance of 10 μmhos -4 volts ←

Mechanical:

Mounting Position Any

Maximum Overall Length 2-1/8"

Maximum Seated Length 1-7/8"

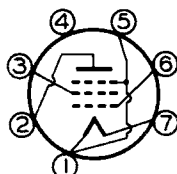
Length, Base Seat to Bulb Top (Excluding tip) . 1-1/2" $\pm$ 3/32"

Maximum Diameter 3/4"

Bulb T-5-1/2

Base Small-Button Miniature 7-Pin (JETEC No.E7-1)

Basing Designation for BOTTOM VIEW 6AR

Pin 1-Filament (-),
Grid No.3,
Internal
ShieldPin 2-Plate
Pin 3-Grid No.2
Pin 4-No ConnectionPin 5-Filament (-),
Grid No.3,
Internal
Shield
Pin 6-Grid No.1
Pin 7-Filament (+)AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE 110 max. volts

GRID-No.2 (SCREEN) VOLTAGE 110 max. volts

^o Without external shield.[•] With external shield JETEC No.316 connected to pin No.1 or pin No.5.

←Indicates a change.

NOV. 5, 1954

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA

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GRID-No.1 (CONTROL-GRID) VOLTAGE:

Positive bias value 0 max. volts

→ TOTAL CATHODE CURRENT 6 max. ma

Typical Operation as Resistance-Coupled Amplifier:

*See RESISTANCE-COUPLED AMPLIFIER CHART No.3
at front of this Section*

→Indicates a change.

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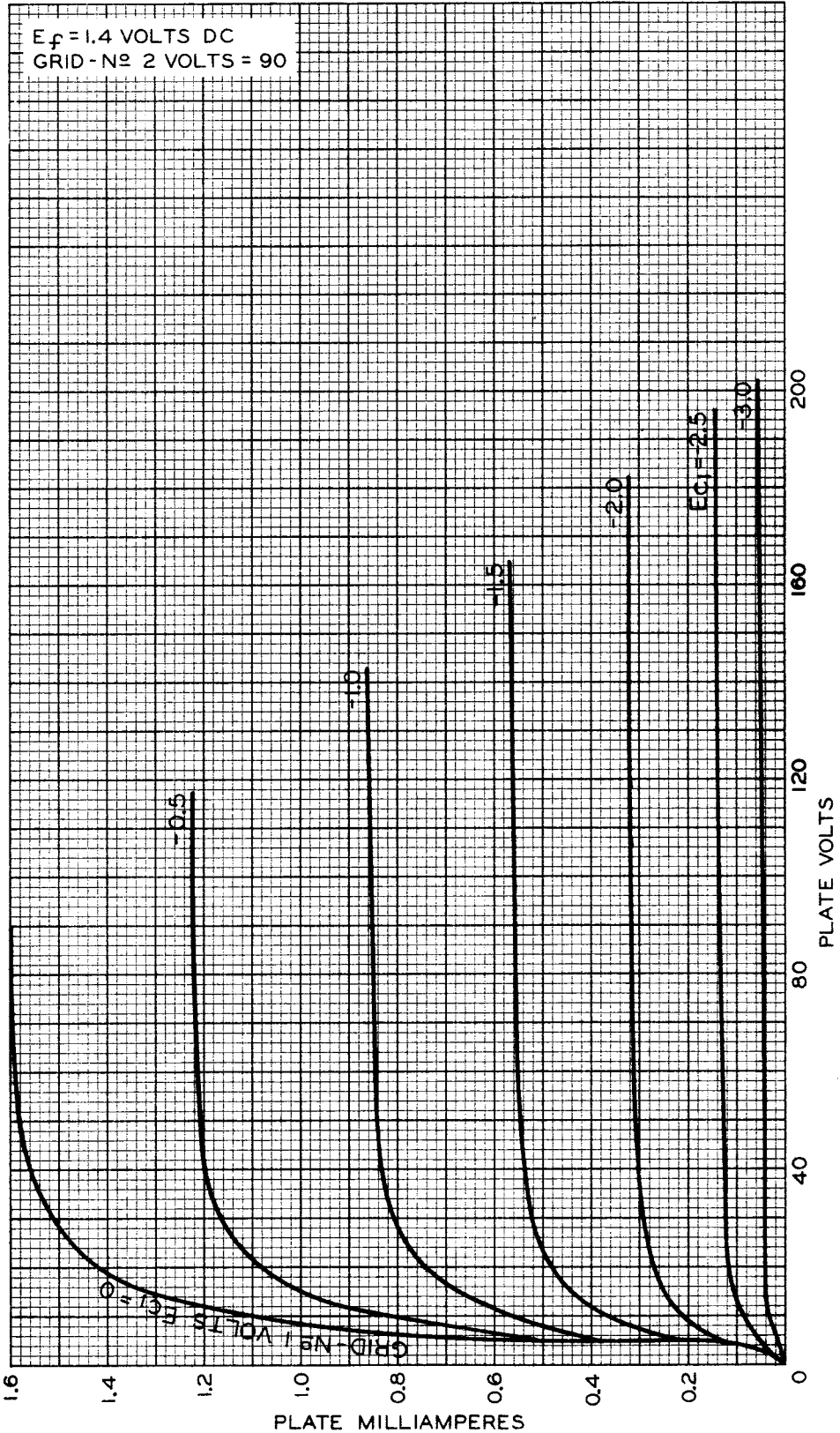
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AVERAGE PLATE CHARACTERISTICS



FEB. 6, 1946

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AVERAGE CHARACTERISTICS

