



6CB6

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SHARP-CUTOFF PENTODE

MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage. 6.3 ac or dc volts

Current. 0.3 amp

Direct Interelectrode Capacitances:

	Without External Shield	With External Shield ^o	
Grid No.1 to plate	0.020 max.	0.010 max.	μmf
Grid No.1 to cathode, grid No.3 & internal shield, grid No.2, and heater	6.5	6.5	μmf
Plate to cathode, grid No.3 & internal shield, grid No.2, and heater	1.9	3.0	μmf

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)

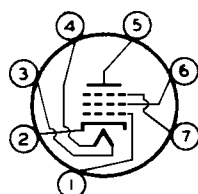
Basing Designation for BOTTOM VIEW 7CM

Pin 1 - Grid No.1

Pin 2 - Cathode

Pin 3 - Heater

Pin 4 - Heater



Pin 5 - Plate

Pin 6 - Grid No.2

Pin 7 - Grid No.3,
Internal
ShieldAMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. 300 max. volts

GRID-No.2 (SCREEN) SUPPLY VOLTAGE. 300 max. volts

GRID-No.2 VOLTAGE. See Grid-No.2 Input Rating Chart
at front of Receiving Tube Section

PLATE DISSIPATION. 2 max. watts

GRID-No.2 INPUT:

For grid-No.2 voltages up to 150 volts . . 0.5 max. watt

For grid-No.2 voltages between 150

and 300 volts. See Grid-No.2 Input Rating Chart
at front of Receiving Tube Section^o With external shield JETEC No.316 connected to cathode

← Indicates a change.

MAR. 1, 1955

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RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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→ PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode .	200 max.	volts
Heater positive with respect to cathode .	200 [▲] max.	volts

Typical Operation and Characteristics:

Plate Voltage	200	volts
Grid No.3 (Suppressor).	<i>Connected to cathode at socket</i>	
Grid-No.2 Voltage	150	volts
Cathode-Bias Resistor	180	ohms
Plate Resistance (Approx.)	0.6	megohm
Transconductance	6200	μ mhos
Grid-No.1 Voltage (Approx.) for plate current of 10 μ amp.	-8	volts
Plate Current	9.5	ma
Grid-No.2 Current	2.8	ma

▲ The dc component must not exceed 100 volts.

→ Indicates a change.

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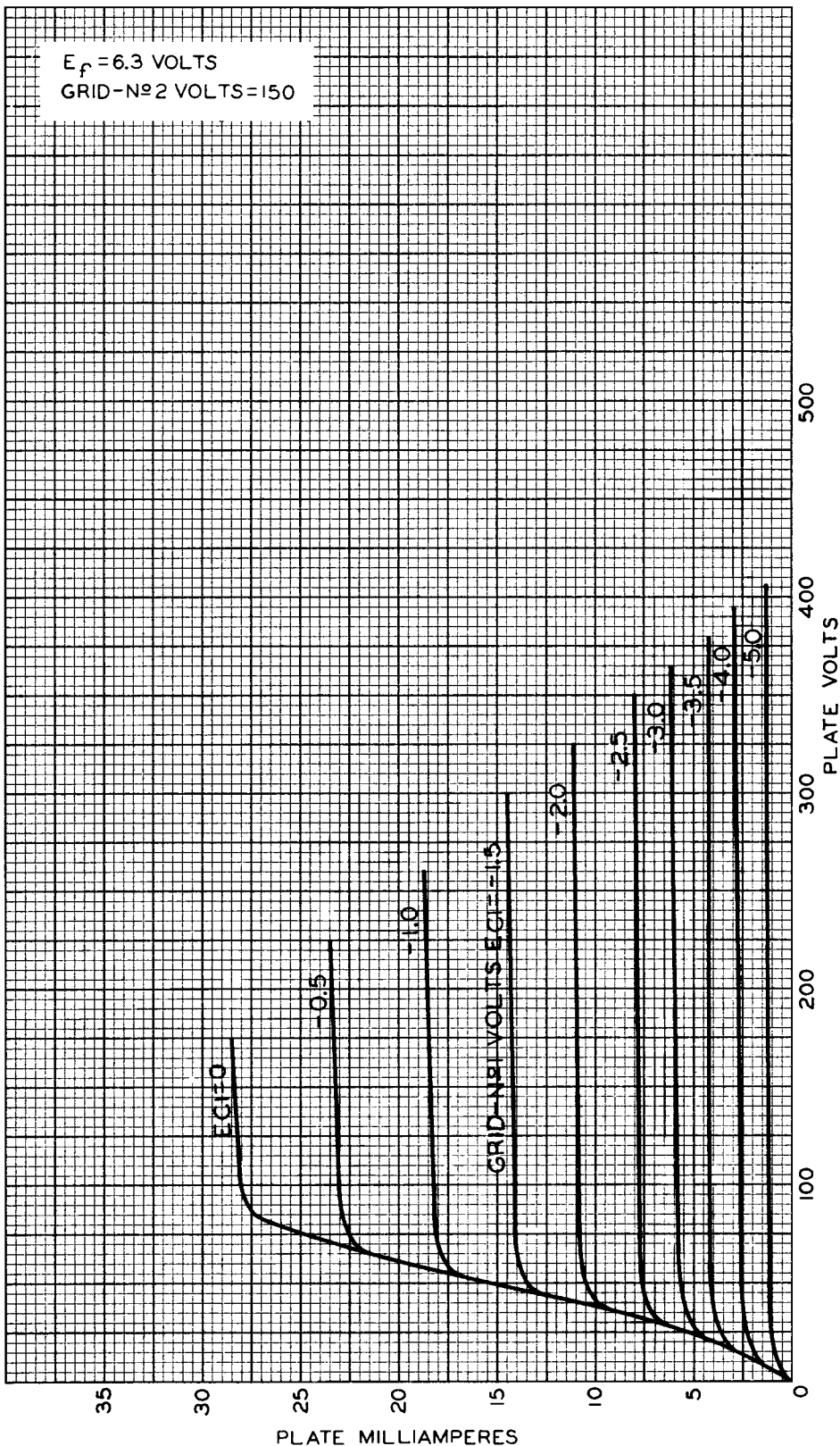
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AVERAGE PLATE CHARACTERISTICS





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AVERAGE CHARACTERISTICS

