



6J8-G

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TRIODE-HEPTODE CONVERTER

Heater ■ Coated Unipotential Cathode
 Voltage 6.3 a-c or d-c volts
 Current 0.3 amp.

Direct Interelectrode Capacitances:

Heptode Grid #1 to Heptode Plate	0.01 max. μmf
Heptode Grid #1 to Triode Plate	0.015 max. μmf
Heptode Grid #1 to Triode Grid & Heptode Grid #3	0.13 μmf
Triode Grid to Triode Plate	2.2 μmf
Heptode Grid #1 to All Other Electrodes (R-F Input)	4.4 μmf
Triode Plate to All Other Electrodes (Osc. Output)	5.5 μmf
Triode Grid & Heptode Grid #3 to All Other Electrodes (Osc. Input)	11.7 μmf
Heptode Plate to All Other Electrodes (Mixer Output)	8.8 μmf

Overall Length 4-7/32" to 4-15/32"

Seated Height 3-21/32" to 3-29/32"

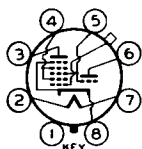
Maximum Diameter 1-9/16"

Bulb ST-12

Cap Skirted Miniature

Base Small Shell Octal 8-Pin

- Pin 1 - No Connection
- Pin 2 - Heater
- Pin 3 - Heptode Plate
- Pin 4 - Heptode Grids #2 & #4



- Pin 5 - Triode Grid & Heptode Grid #3
- Pin 6 - Triode Plate
- Pin 7 - Heater
- Pin 8 - Cathode

Mounting Position BOTTOM VIEW (G-8H) Any

CONVERTER SERVICE

Heptode Plate Voltage	250 max.	volts
Heptode Screen (Grids #2 & #4) Voltage	100 max.	volts
Triode Plate Supply Voltage*	250 max.	volts

Typical Operation and Characteristics:

Heptode Plate Voltage	100	250	volts
Heptode Screen Voltage	100	100	volts
Heptode Control-Grid Voltage (Grid #1)	-3	-3	volts
Triode Plate Voltage	100	-	volts
Triode Plate Supply Voltage*	-	250	volts
Triode Grid Resistor	50000	50000	ohms
Heptode Plate Resistance	0.9	4.0 approx.	megohms
Conversion Transconductance	250	290	μmhos
Heptode Control-Grid Bias for Conversion Transcond. of 2 μmhos	-	-20	volts
Heptode Plate Current	1.4	1.3	ma.
Heptode Screen Current	3.0	2.9	ma.
Triode Plate Current	3.0	5.0	ma.
Triode Grid & Heptode Grid #3 Current	0.3	0.4	ma.

NOTE: The transconductance of the triode unit (not oscillating) is approximately 1600 μmhos under the following conditions: triode plate volts, 150; triode grid volts, -3.

■ In circuits where the cathode is not connected directly to the heater, the potential difference between heater and cathode should be kept as low as possible.

● with shield-can connected to cathode.

* Applied through 20000-ohm dropping resistor.

July 1, 1941

RCA RADOTRON DIVISION
 RCA MANUFACTURING COMPANY, INC.

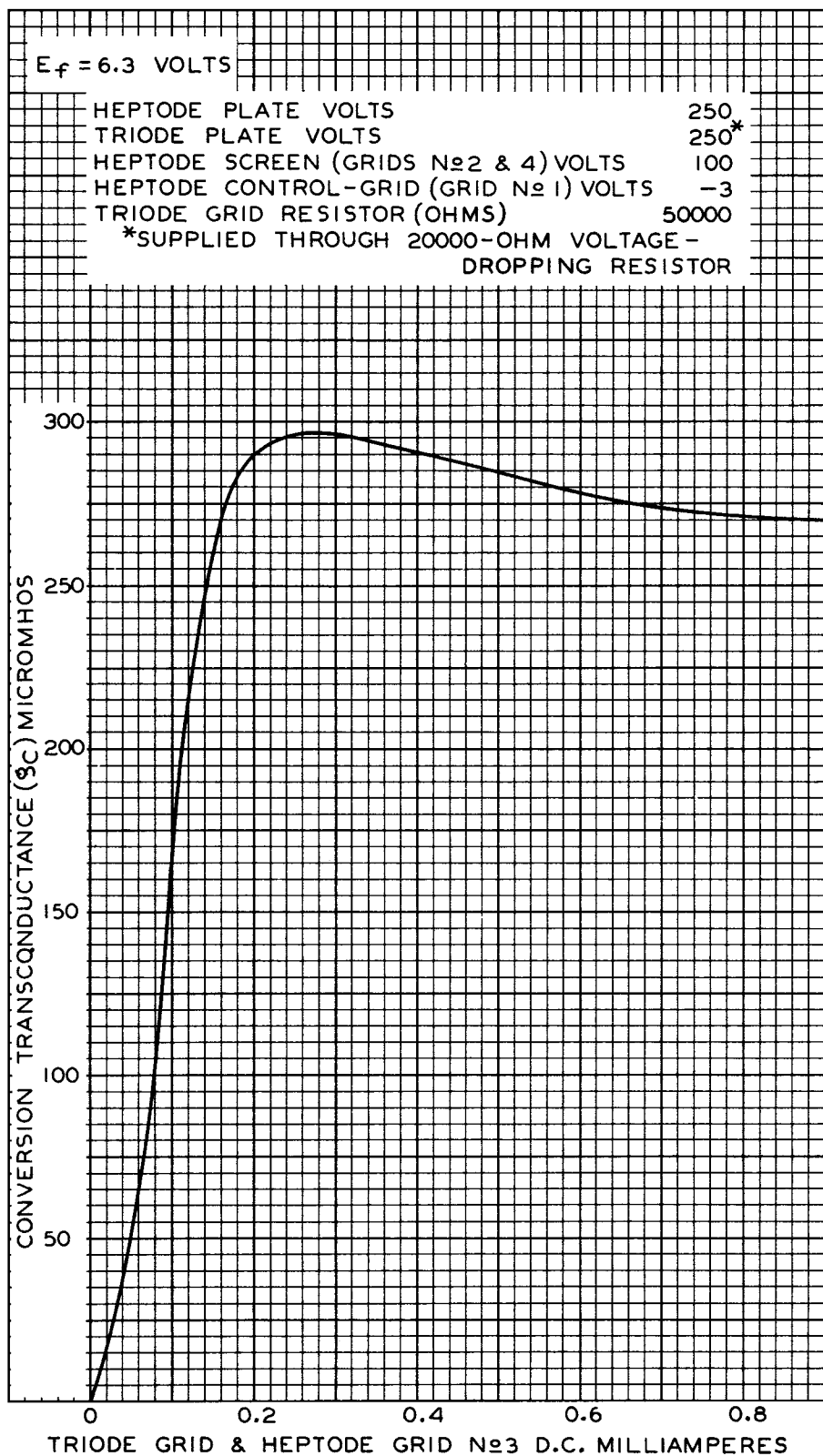
TENTATIVE DATA

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OPERATION CHARACTERISTIC



MAY 13, 1941

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92C-6285