



9003

9003

SUPER-CONTROL R-F AMPLIFIER PENTODE

MIDGET TYPE

Heater	Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts
Current	0.15	amp.
Direct Interelectrode Capacitances:		
Grid to Plate	0.01 max.	μf
Input	3.4	μf
Output	3.0	μf
Maximum Overall Length		1-13/16"
Maximum Seated Height		1-9/16"
Length from Base Seat to Bulb Top (excluding tip)		1-3/16" \pm 3/32"*
Maximum Diameter		3/4"
Bulb		T-5-1/2
Base [▲]	Miniature Button 7-Pin	
Pin 1 - Grid		Pin 5 - Plate
Pin 2 - Cathode		Pin 6 - Screen
Pin 3 - Heater		Pin 7 - { Cathode, Grid No. 3, Internal Shield
Pin 4 - Heater		
RCA Socket		Stock No. 9914
Mounting Position	BOTTOM VIEW	Any



Maximum and Minimum Ratings Are Design-Center Values

AMPLIFIER

Plate Voltage	250 max.	volts
Screen Voltage	100 max.	volts
Grid Voltage	-3 min.	volts
Plate Dissipation	1.7 max.	watts
Screen Dissipation	0.3 max.	watt

Typical Operation and Characteristics - Class A₁ Amplifier:

Plate Voltage	250	volts
Screen Voltage	100	volts
Grid Voltage	-3	volts
Plate Resistance	0.7 approx.	megohm
Transconductance	1800	μmhos
Grid Bias for Transcond. of 15 μmhos	-35	volts
Grid Bias for Transcond. of 2 μmhos	-45	volts
Plate Current	6.7	ma.
Screen Current	2.7	ma.

Typical Operation as Mixer in Superheterodyne Circuit:

Plate Voltage	100	250	volts
Screen Voltage	100	100	volts
Grid Voltage #	-10	-10 approx.	volts
Conversion Transconductance		600 approx.	μmhos

* The grid bias is minimum for an oscillator peak voltage of 9 volts. These values are optimum.

▲ The center hole in sockets designed for this base provides for the possibility that this tube type may be manufactured with the exhaust-tube tip at the base end. For this reason, it is recommended that in equipment employing this tube type, no material be permitted to obstruct the socket hole.

Shielding Considerations & Heater-Cathode Connections
For the 9003 are the same as for Type 9001.

← Indicates a change.

* Temporary minimum length = 1-1/16".

OCT. 1, 1943

RCA VICTOR DIVISION

DATA

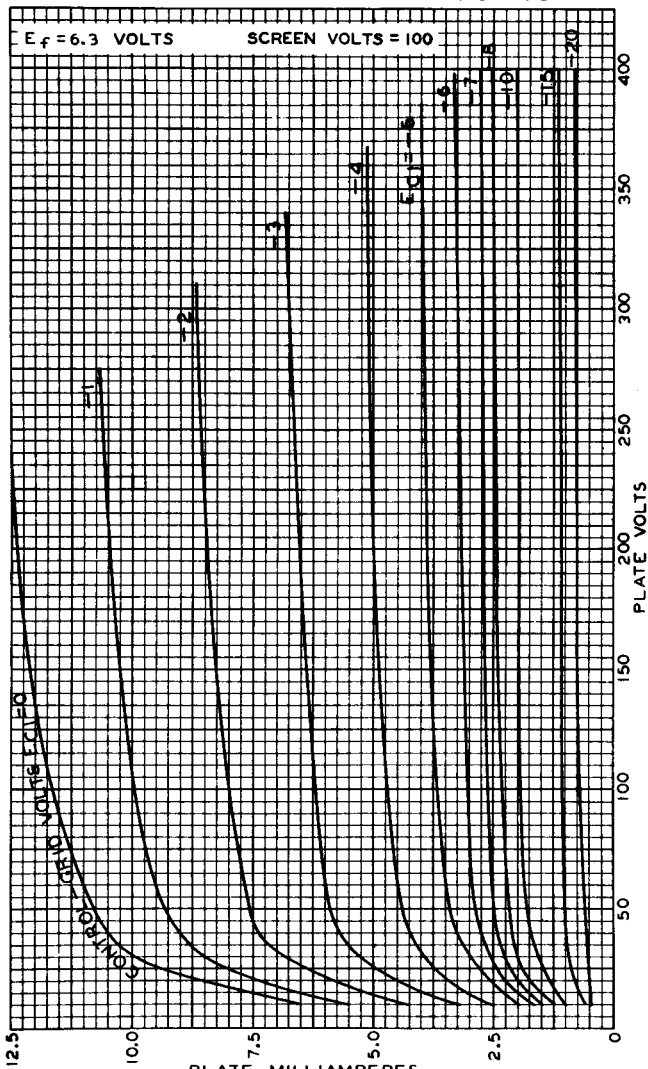
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

9003



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AVERAGE PLATE CHARACTERISTICS



SEPT. 17, 1943

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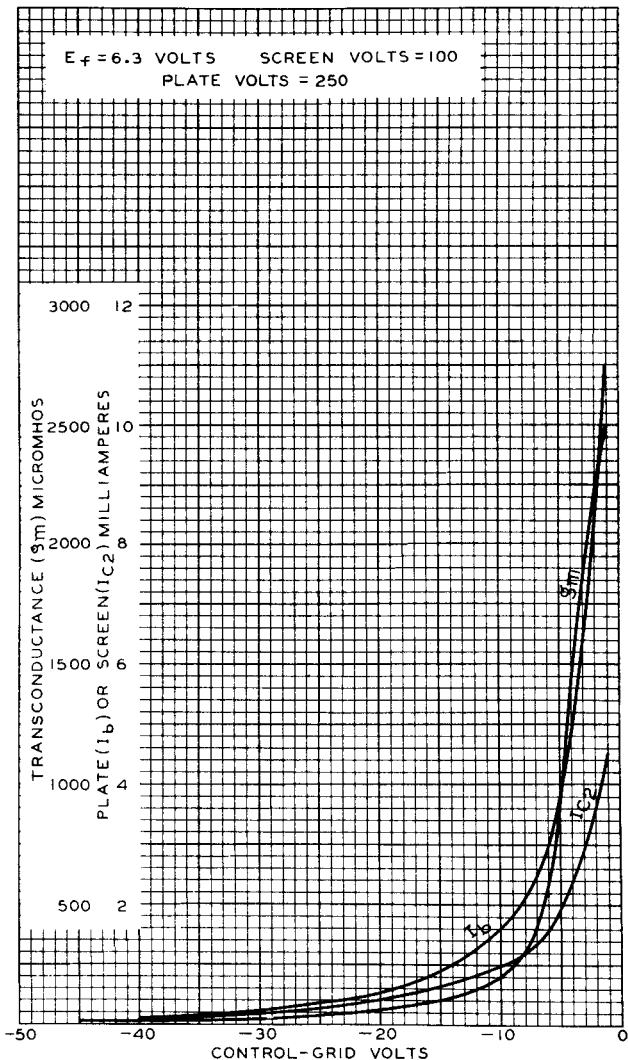


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AVERAGE CHARACTERISTICS

$E_f = 6.3$ VOLTS SCREEN VOLTS = 100
PLATE VOLTS = 250

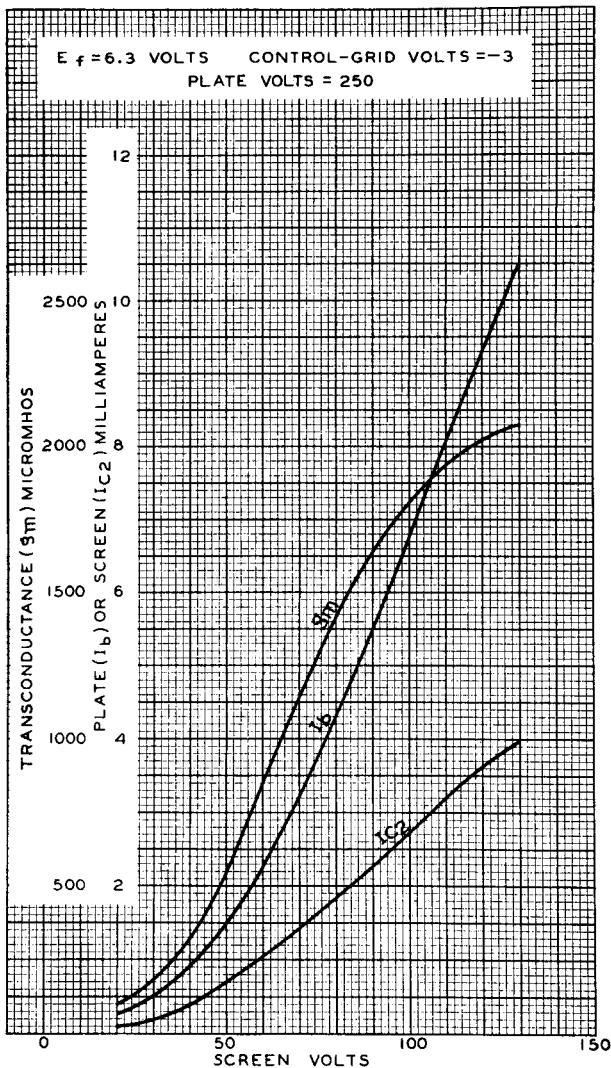


9003



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AVERAGE CHARACTERISTICS



MAY 29, 1941

RCA RADOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

92C-6290