



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.	μ f
Input	3.4	μ f
Output	3.0	μ f

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	μ mhos
Grid Bias for		
Transcond. of 15 μ mhos	-35	volts
Grid Bias for		
Transcond. of 2 μ mhos	-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.	μ mhos

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

DATA

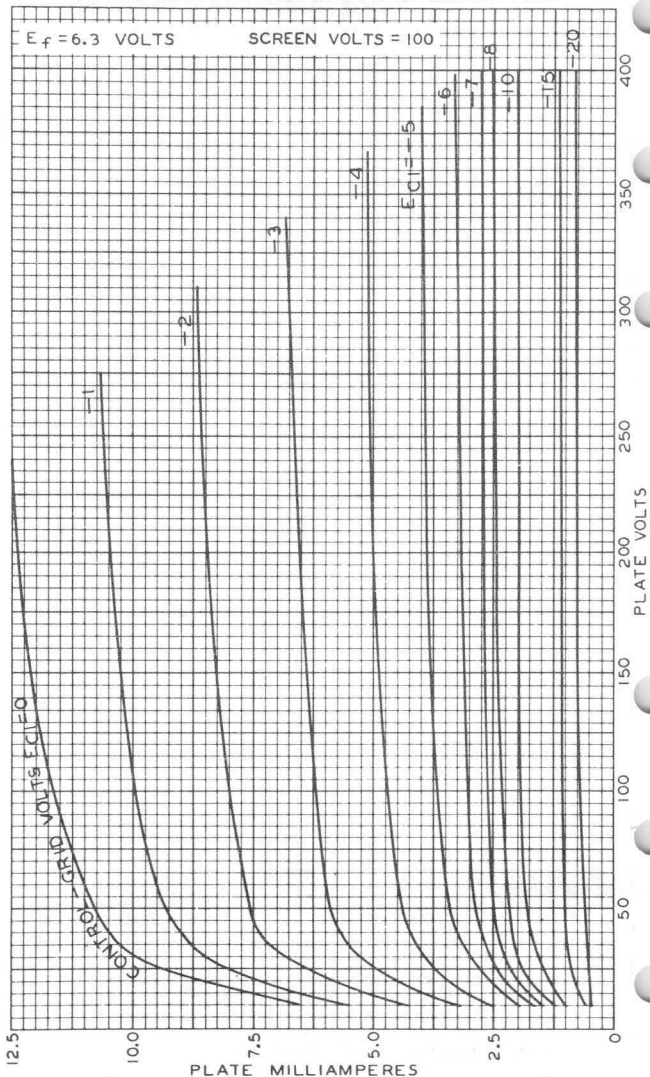
RCA VICTOR DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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AVERAGE PLATE CHARACTERISTICS



SEPT. 17, 1943

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 RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

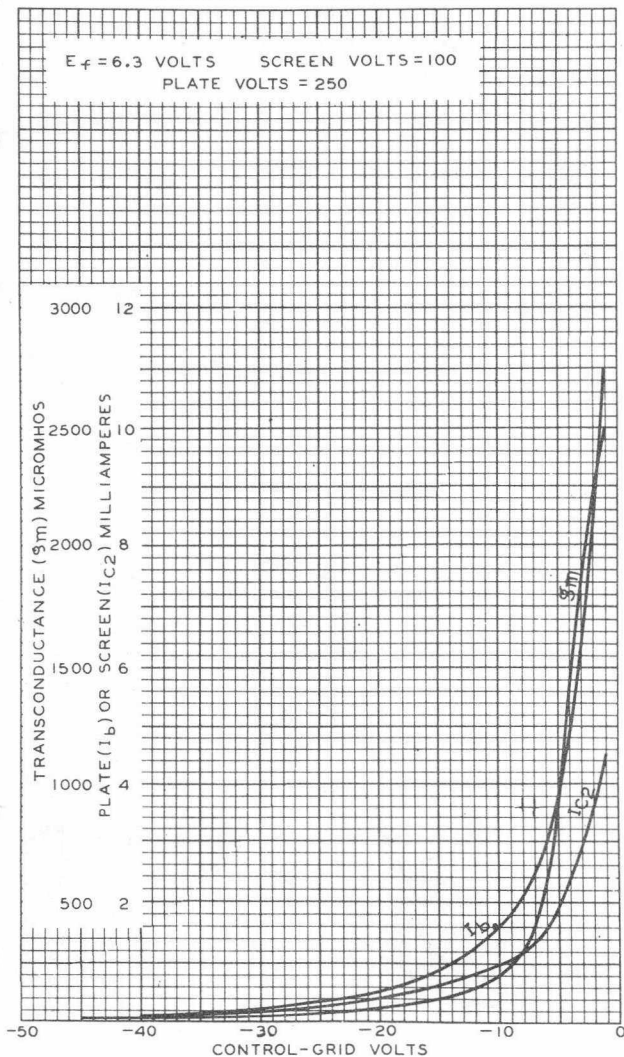
92C-6288



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AVERAGE CHARACTERISTICS



MAY 29, 1941

RCA RADOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

92C-6289

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AVERAGE CHARACTERISTICS

