



ID8-GT



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DIODE-TRIODE-POWER AMPLIFIER PENTODE

Filament	Coated	
Voltage	1.4	d-c volts
Current	0.1	amp.

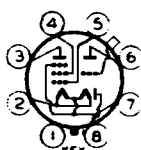
Maximum Overall Length	3-5/16"
Maximum Seated Height	2-3/4"
Maximum Diameter	1-5/16"
Bulb	T-9

Cap Skirted Miniature - Style C
Base Intermediate Shell Octal 8-Pin

Pin 1 - No Connection	Pin 6 - Triode Plate
Pin 2 - Filament +	Pin 7 - Filament -
Pin 3 - Pentode Plate	Pin 8 - Diode Plate
Pin 4 - Pentode Screen	Cap - Triode Grid
Pin 5 - Pentode Grid	

Mounting Position

Any



BOTTOM VIEW (G-8AJ)

TRIODE UNIT

Plate Voltage				110 max.	volts
<i>Typical Operation and Characteristics - Class A₁ Amplifier:</i>					
Plate Voltage	45	67.5	90		volts
Grid Voltage	0	0	0		volts
Amplification Factor	25	25	25		
Plate Resistance	77000	55500	43500	approx.	ohms
Transconductance	325	450	575		μmhos
Plate Current	0.3	0.6	1.1		ma.

PENTODE UNIT

Plate Voltage				110 max.	volts
Screen Voltage				110 max.	volts
Total Zero-Sig. Cathode Current				6 max.	ma.
<i>Typical Operation and Characteristics - Class A₁ Amplifier:</i>					
Plate Voltage	45	62.5	67.5	90	volts
Screen Voltage	45	62.5	67.5	90	volts
Grid Voltage	-4.5	-5	-6	-9	volts
Peak A-F Grid Volt.	4.5	5	6	9	volts
Plate Current	1.6	3.8	3.8	5	ma.
Screen Current	0.3	0.8	0.8	1.0	ma.
Plate Resistance	0.3	0.2	0.2	0.2	approx. megohm
Transconductance	650	875	875	925	μmhos
Load Resistance	20000	16000	16000	12000	ohms
Total Harmonic Dist.	10	10	10	10	%
Power Output	35	90	100	200	mw

DIODE UNIT

The diode is located at the negative end of the filament, and is independent of the triode unit and of the pentode unit except for the common filament.

← Indicates a change.

Sept. 2, 1941

RCA RADOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

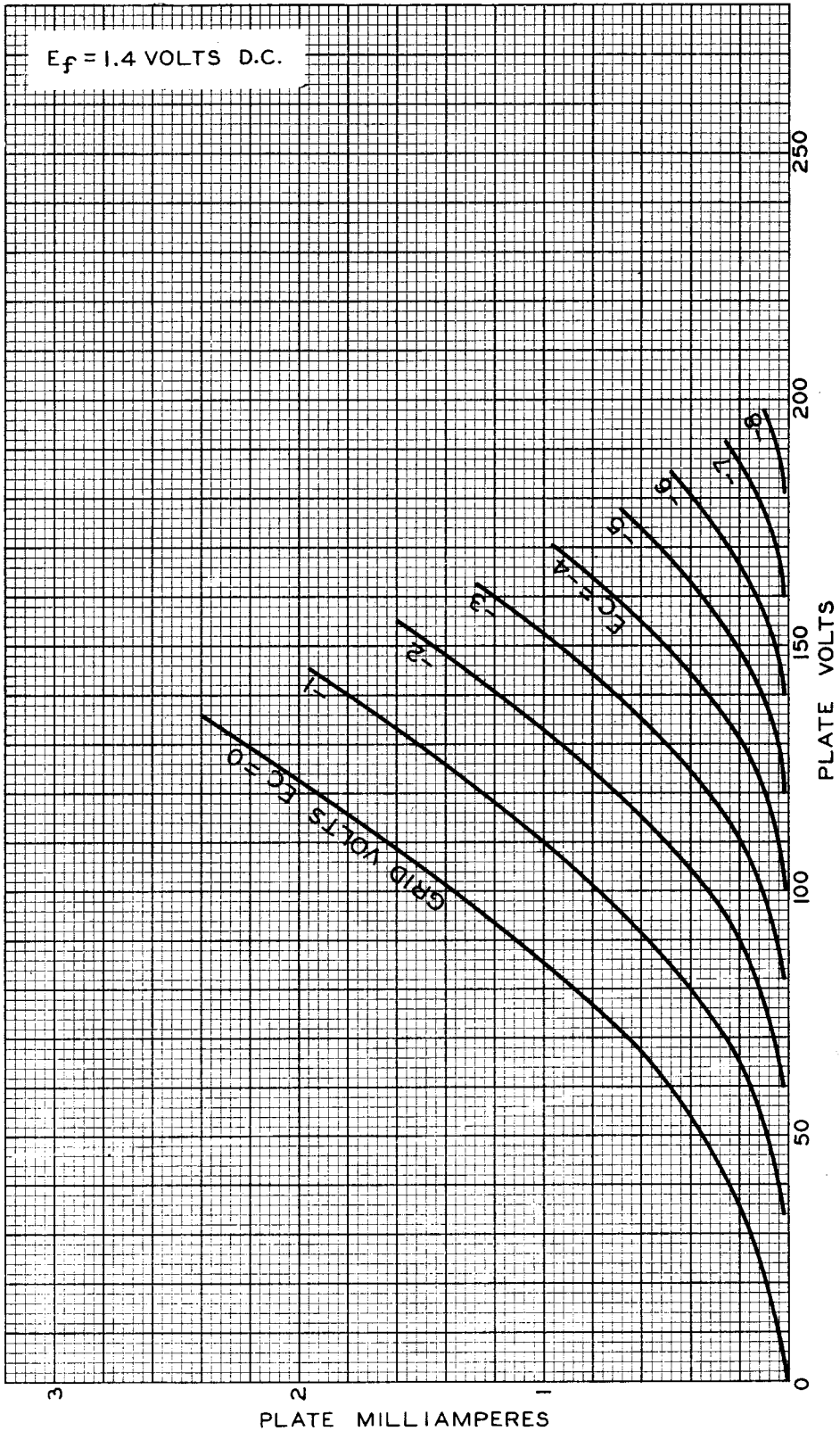
DATA

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AVERAGE PLATE CHARACTERISTICS TRIODE UNIT





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AVERAGE PLATE CHARACTERISTICS PENTODE UNIT

$E_f = 1.4$ VOLTS D.C.

SCREEN VOLTS = 90

