



IS4

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**POWER AMPLIFIER PENTODE**

MINIATURE TYPE

Filament	Coated	
Voltage	1.4	d-c volts
Current	0.1	amp.
Maximum Overall Length		2-1/8"
Maximum Seated Height		1-7/8"
Maximum Diameter		3/4"
Bulb		T-5-1/2
Base ^Δ		Miniature Button 7-Pin
Pin 1 - Filament -		Pin 5 - Filament -
Pin 2 - Plate		Pin 6 - Plate
Pin 3 - Grid		Pin 7 - Filament +
Pin 4 - Screen		
Mounting Position		Any



BOTTOM VIEW (7AV)

AMPLIFIER

Plate Voltage			90 max. volts
Screen Voltage			67.5 max. volts
Total Max.-Signal Cathode Current			11 max. ma.
Total Zero-Signal Cathode Current			9 max. ma.
<i>Typical Operation and Characteristics - Class A₁ Amplifier:</i>			
Filament	1.4	1.4	1.4 d-c volts
Plate	45	67.5	90 volts
Screen	45	67.5	67.5 volts
Grid	-4.5	-7	-7 volts
Peak A-F Grid Voltage	4.5	7	7 volts
Zero-Signal Plate Cur.	3.8	7.2	7.4 ma.
Zero-Signal Screen Cur.	0.8	1.5	1.4 ma.
Plate Res. (Approx.)	0.1	0.1	0.1 megohm
Transcond.	1250	1550	1575 μmhos
Load Res.	8000	5000	8000 ohms
Total Harmonic			
Distortion	12	10	12 %
Max.-Sig. Power Output	65	180	270 mw

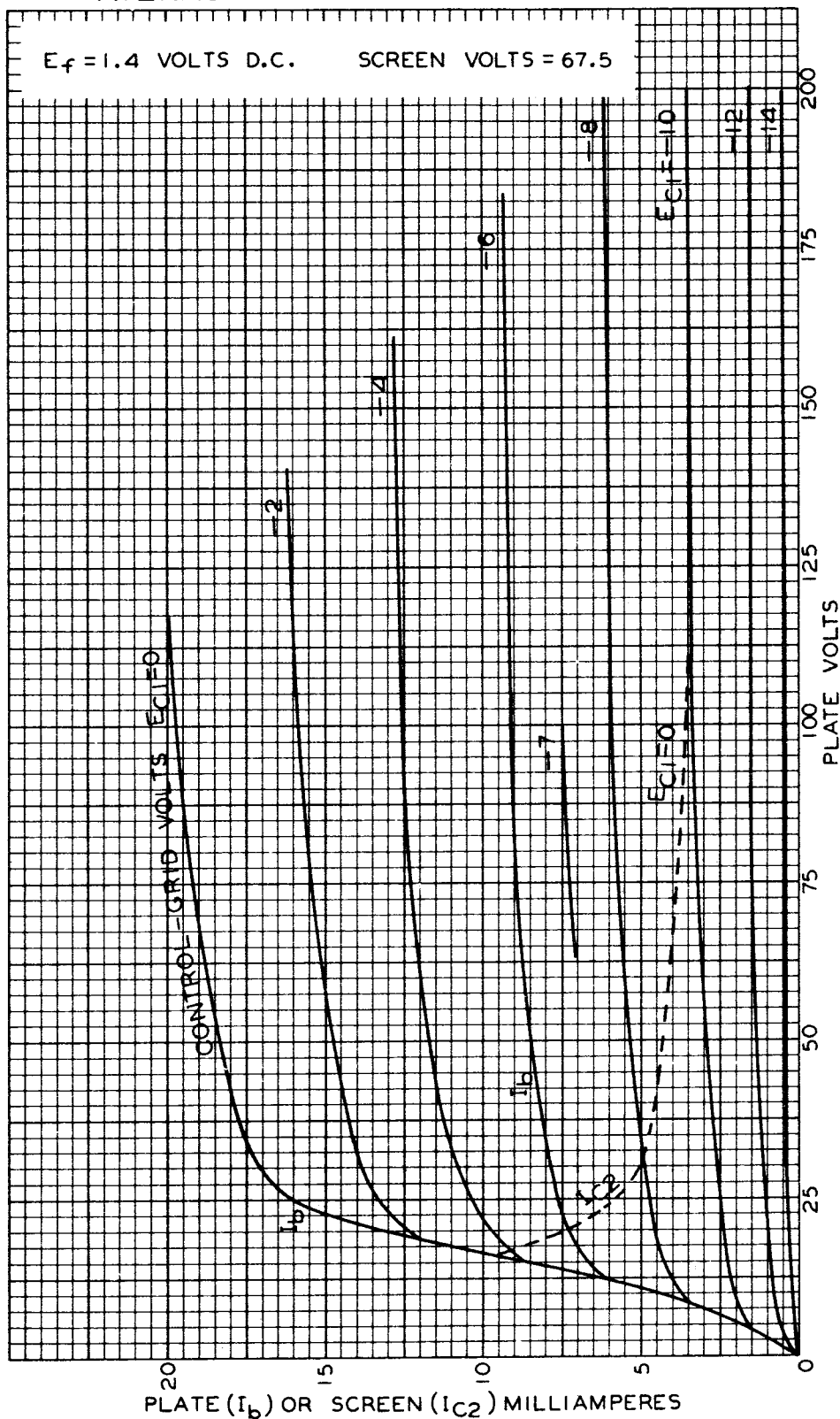
^Δ The center hole in sockets designed for this base provides for the possibility that this tube type may be manufactured with the exhaust-tube tip at the base end. For this reason, it is recommended that in equipment employing this tube type, no material be permitted to obstruct the socket hole.

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AVERAGE PLATE CHARACTERISTICS



JAN. 26, 1942

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92C-6157R1



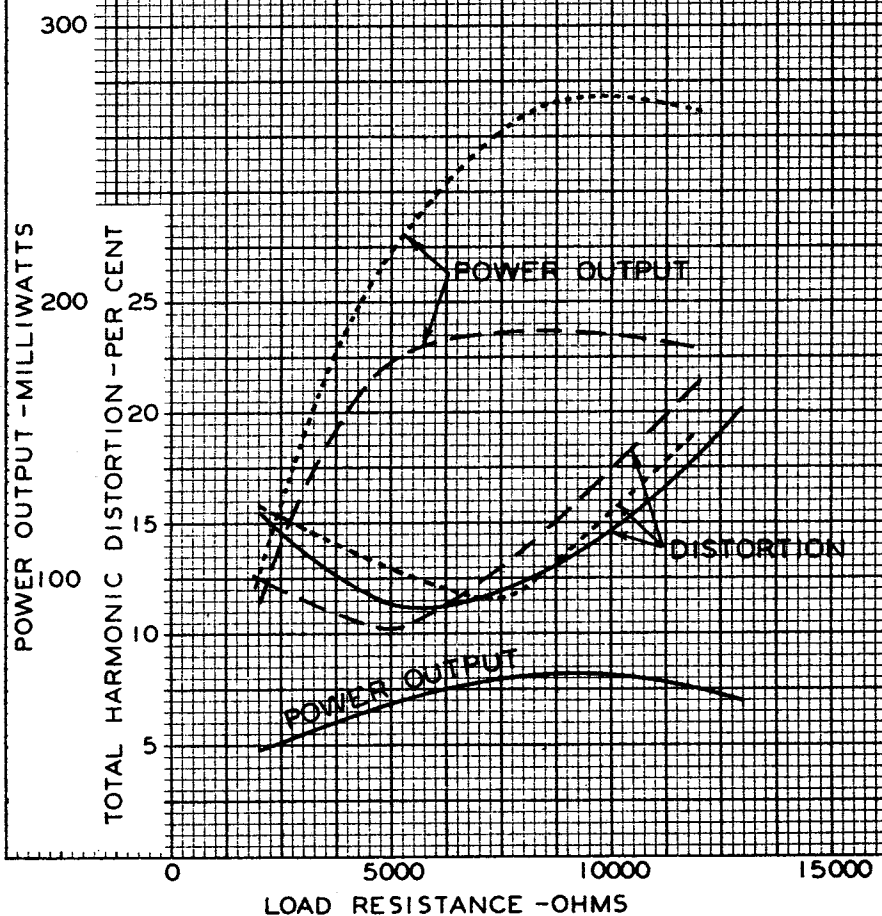
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OPERATION CHARACTERISTICS

 $E_f = 1.4$ VOLTS D.C.

CURVE	PLATE VOLTS	SCREEN VOLTS	GRID VOLTS	SIGNAL VOLTS RMS
—	45	45	-4.5	3.2
- - -	67.5	67.5	-7	4.95
.....	90	67.5	-7	4.95



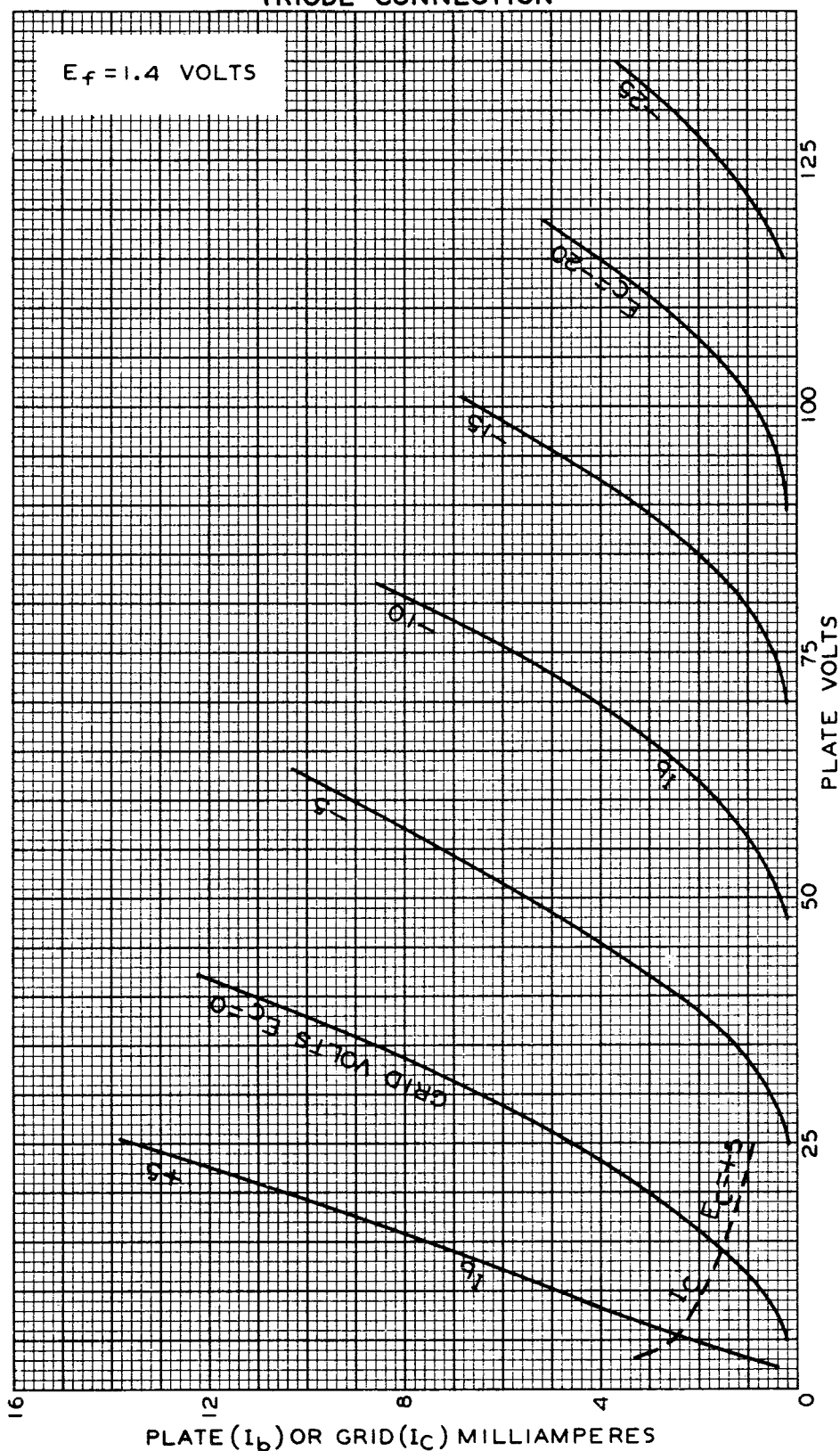
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1S4

AVERAGE PLATE CHARACTERISTICS TRIODE CONNECTION

$E_f = 1.4$ VOLTS



DEC. 26, 1941

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

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