



IS4

ISA



# 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 <sup>Δ</sup>		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 A<sub>1</sub> 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

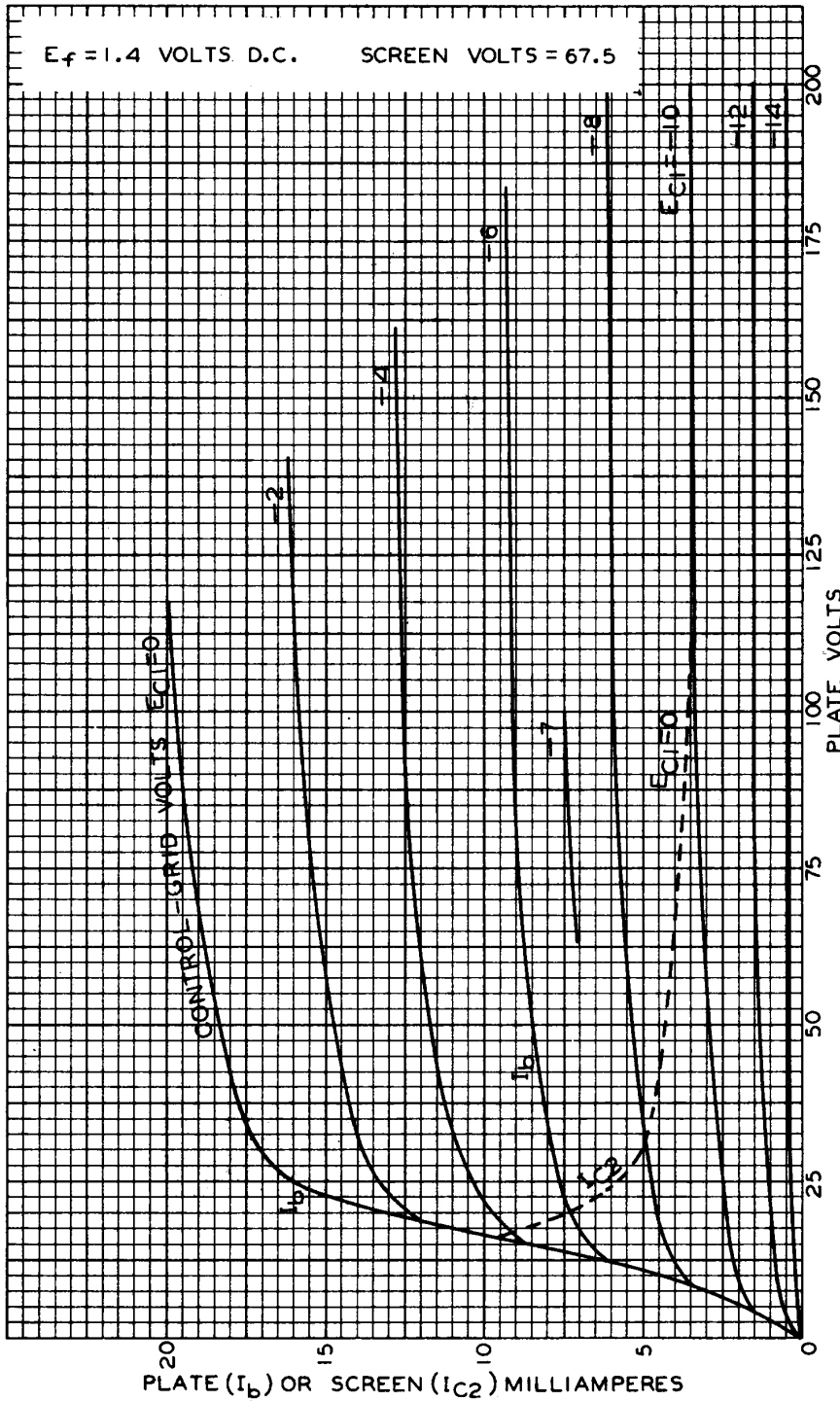
<sup>Δ</sup> The center hole in sockets designed for this base provides for the possibility that this tube type may be manufactured with the exhaust-tube tip at the base end. For this reason, it is recommended that in equipment employing this tube type, no material be permitted to obstruct the socket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

154



154

### AVERAGE PLATE CHARACTERISTICS



JAN. 26, 1942

RCA RADOTRON DIVISION  
RCA MANUFACTURING COMPANY, INC.

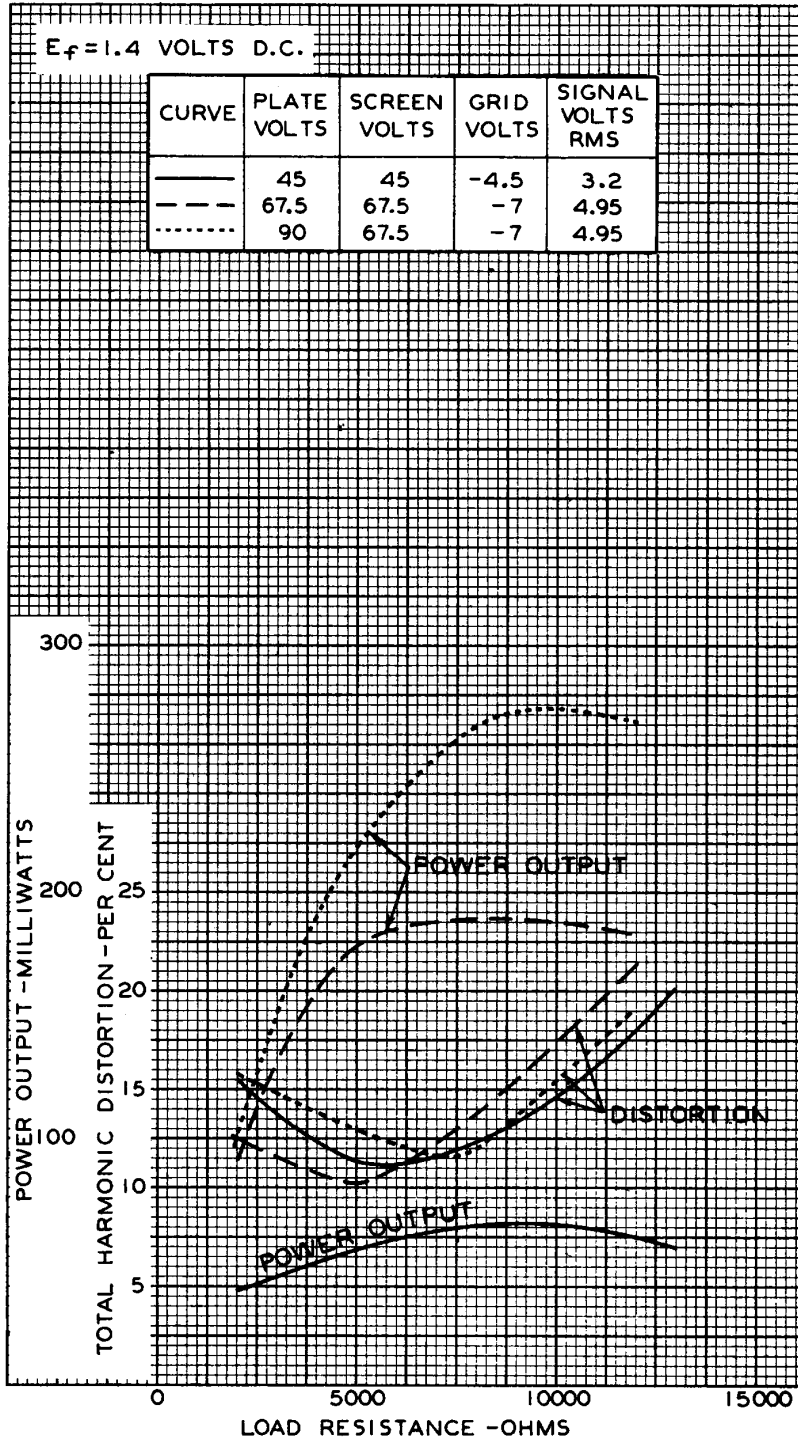
92C-6157RI



IS4

IS4

### OPERATION CHARACTERISTICS



MAY 8, 1941

RCA RADIODIODE DIVISION  
RCA MANUFACTURING COMPANY, INC.

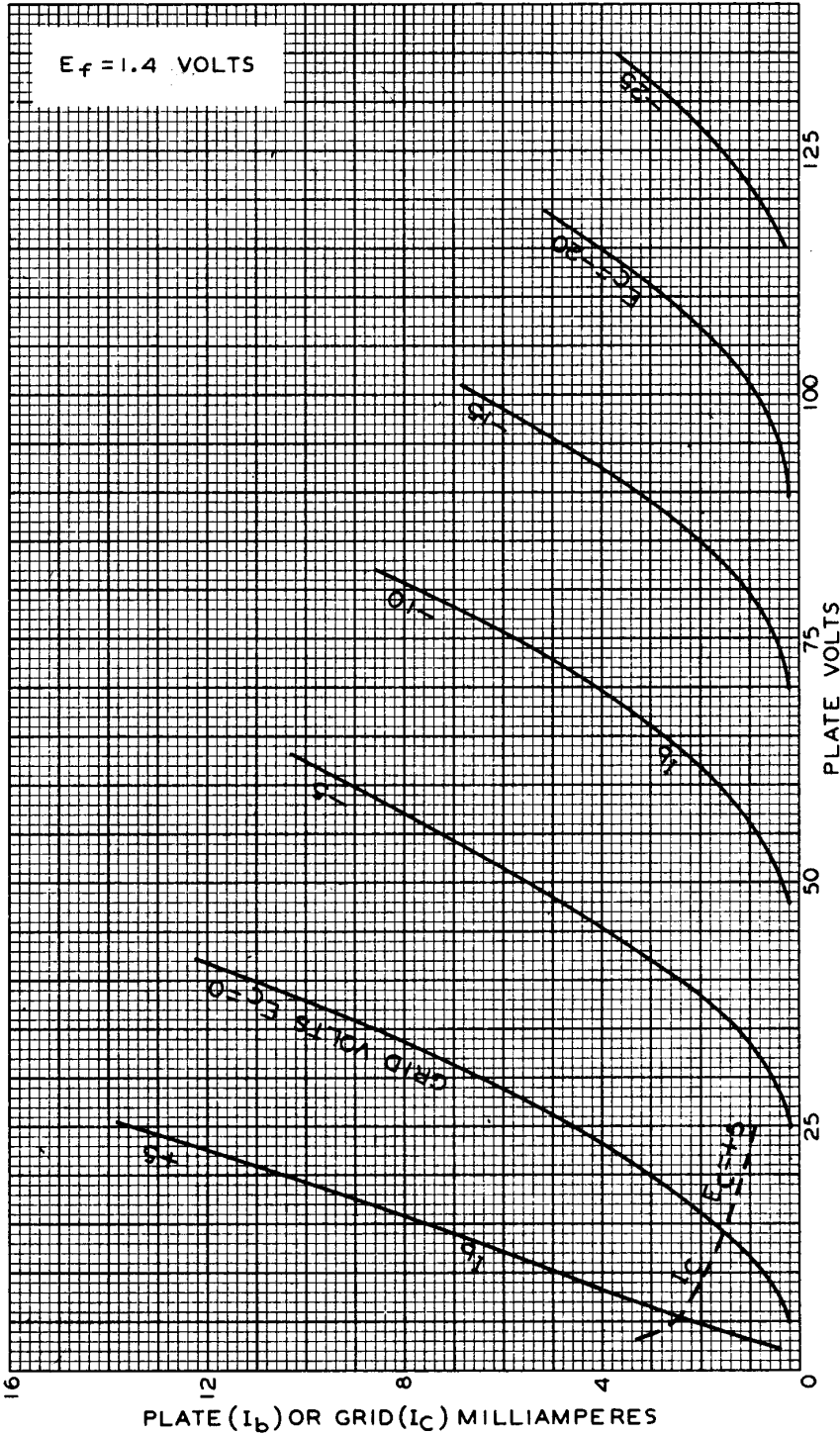
92C-6175R1

154



154

### AVERAGE PLATE CHARACTERISTICS TRIODE CONNECTION



DEC. 26, 1941

RCA RADIOTRON DIVISION  
RCA MANUFACTURING COMPANY, INC.

92C-6348