



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 ^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 |

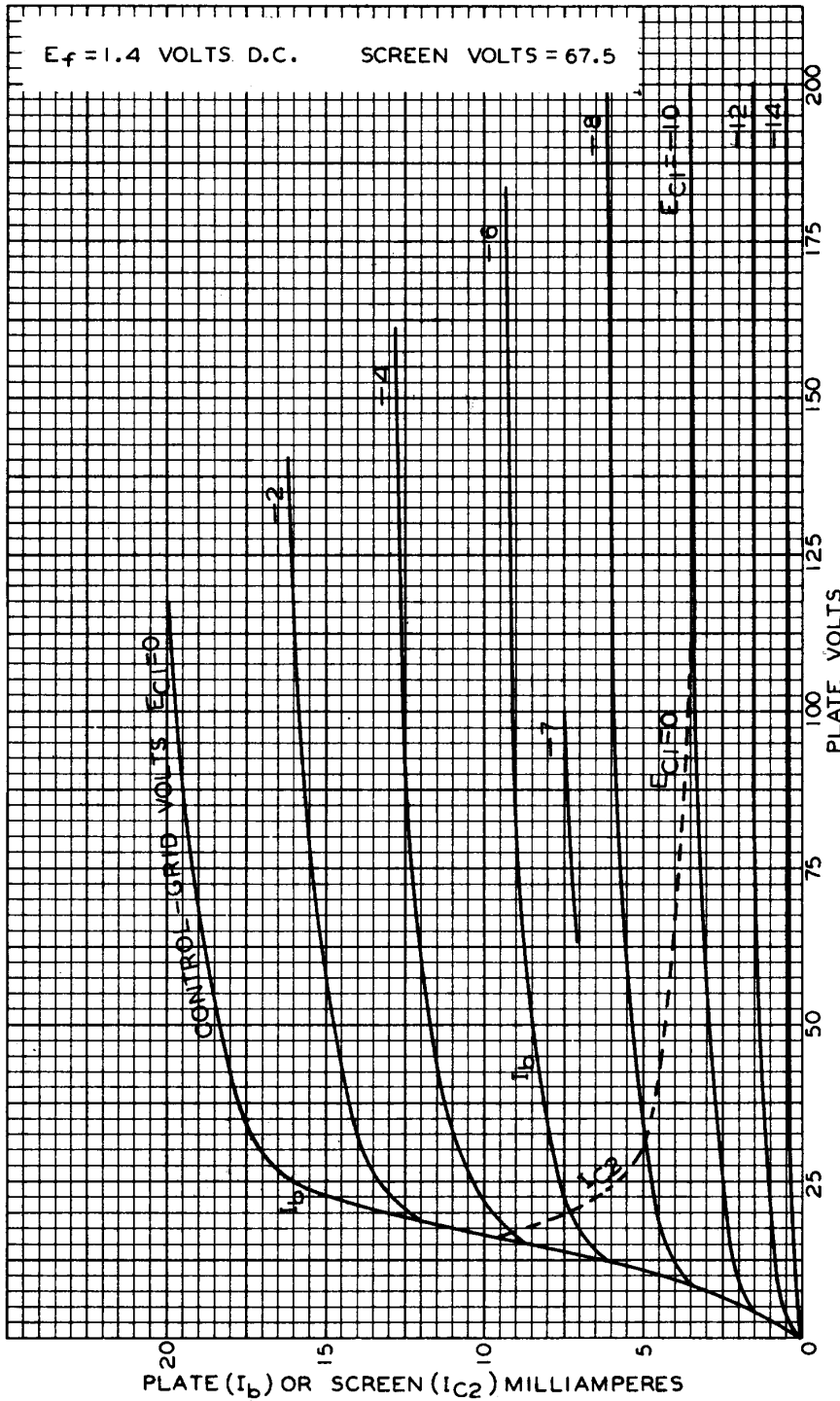
^Δ The center hole in sockets designed for this base provides for the possibility that this tube type may be manufactured with the exhaust-tube tip at the base end. For this reason, it is recommended that in equipment employing this tube type, no material be permitted to obstruct the socket hole.

154



154

AVERAGE PLATE CHARACTERISTICS



JAN. 26, 1942

RCA RADOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

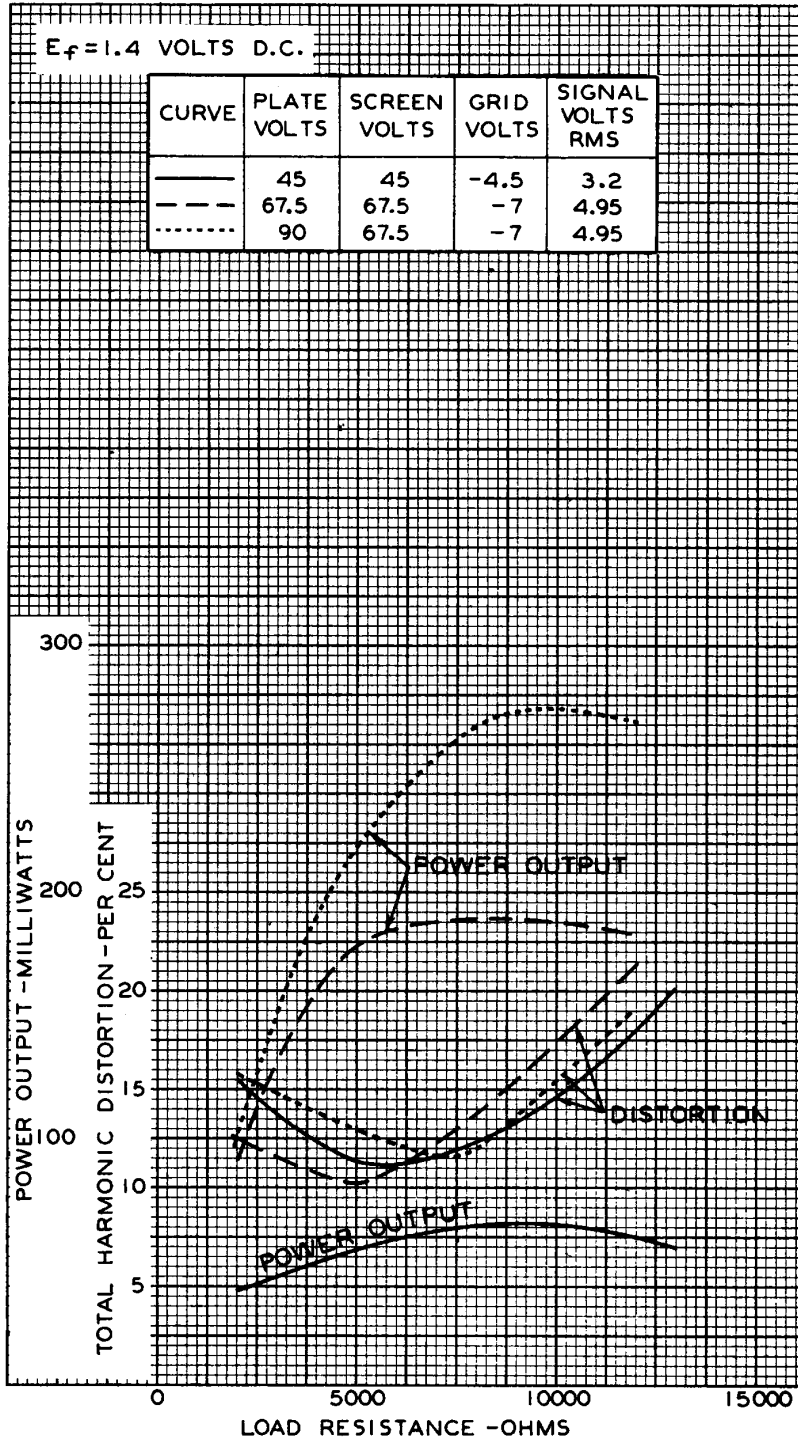
92C-6157RI



IS4

IS4

OPERATION CHARACTERISTICS



MAY 8, 1941

RCA RADIODIODE DIVISION
RCA MANUFACTURING COMPANY, INC.

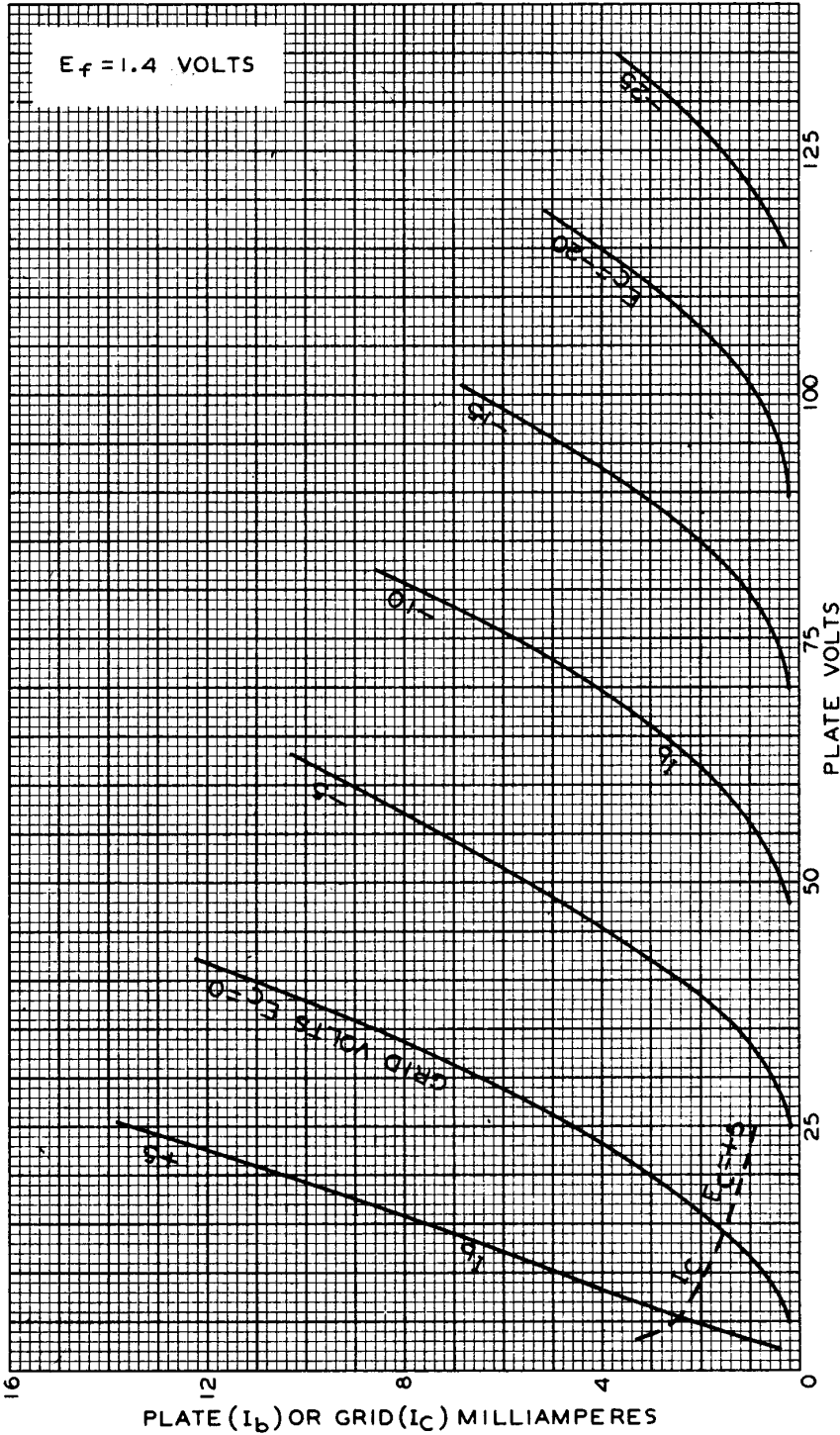
92C-6175R1

154



154

AVERAGE PLATE CHARACTERISTICS TRIODE CONNECTION



DEC. 26, 1941

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

92C-6348