



117Z3

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## HALF-WAVE VACUUM RECTIFIER

MINIATURE TYPE

## GENERAL DATA

## Electrical:

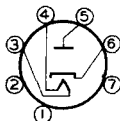
Heater, for Unipotential Cathode:

|                  |      |                |
|------------------|------|----------------|
| Voltage. . . . . | 117  | ac or dc volts |
| Current. . . . . | 0.04 | amp            |

## Mechanical:

|                                              |                        |
|----------------------------------------------|------------------------|
| Mounting Position. . . . .                   | Any                    |
| Maximum Overall Length . . . . .             | 2-5/8"                 |
| Maximum Seated Length. . . . .               | 2-3/8"                 |
| Maximum Diameter . . . . .                   | 3-4"                   |
| Bulb . . . . .                               | T-5-1/2                |
| Base . . . . .                               | Miniature Button 7-Pin |
| Basing Designation for BOTTOM VIEW . . . . . | 4CB                    |

Pin 1 - Internal Con.-  
Do Not Use  
Pin 2 - No Connection  
Pin 3 - Heater



Pin 4 - Heater  
Pin 5 - Plate  
Pin 6 - Cathode  
Pin 7 - No Con.-

## HALF-WAVE RECTIFIER

## Maximum Ratings, Design-Center Values:

|                                                  |          |       |
|--------------------------------------------------|----------|-------|
| PEAK INVERSE PLATE VOLTAGE . . . . .             | 330 max. | volts |
| PEAK PLATE CURRENT . . . . .                     | 540 max. | ma    |
| DC OUTPUT CURRENT. . . . .                       | 90 max.  | ma    |
| HOT-SWITCHING TRANSIENT PLATE CURRENT            |          |       |
| For duration of 0.2 second maximum . . . . .     | 2.5 max. | amp   |
| PEAK HEATER-CATHODE VOLTAGE:                     |          |       |
| Heater negative with respect to cathode. . . . . | 175 max. | volts |
| Heater positive with respect to cathode. . . . . | 100 max. | volts |

## Typical Operation with Capacitor-Input to Filter:

|                                                      |     |       |
|------------------------------------------------------|-----|-------|
| AC Plate-Supply Voltage (RMS). . . . .               | 117 | volts |
| Filter-Input Capacitor . . . . .                     | 30  | μf    |
| Min. Total Effective Plate-Supply Impedance. . . . . | 20  | ohms  |
| DC Output Current. . . . .                           | 90  | ma    |
| DC Output Voltage at Input to Filter (Approx.):      |     |       |
| At half-load current (45 ma.). . . . .               | 130 | volts |
| At full-load current (90 ma.). . . . .               | 110 | volts |
| Voltage Regulation (Approx.):                        |     |       |
| Half-load to full-load current . . . . .             | 20  | volts |

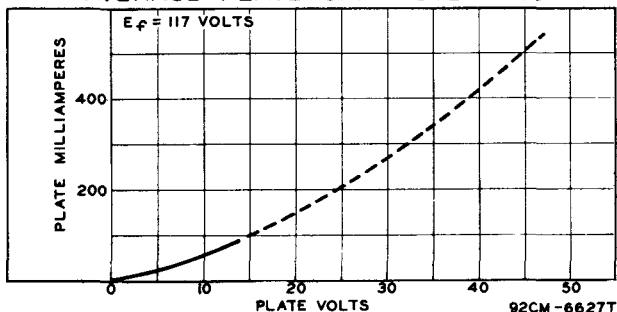
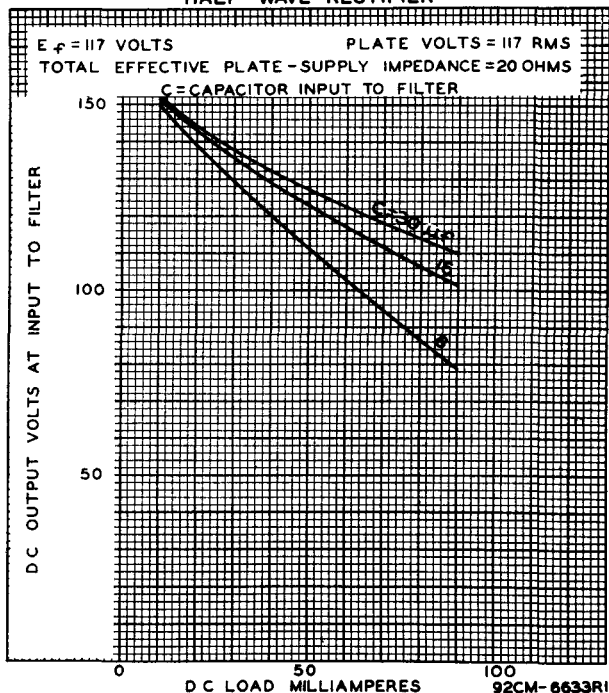
← Indicates a change.

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## AVERAGE PLATE CHARACTERISTIC

OPERATION CHARACTERISTICS  
HALF-WAVE RECTIFIER

JULY 3, 1950

TUBE DEPARTMENT

CE-6627T-6633R1

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY