



2X2-A

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# HALF-WAVE VACUUM RECTIFIER

For applications critical as to severe shock and vibration

## GENERAL DATA

### Electrical:

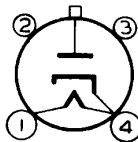
Heater, for Unipotential Cathode:

	Min.	Av.	Max.	
Voltage . . . . .	2.25	2.50	2.75	ac volts
Current at 2.50 volts . . .	1.55	1.75	1.95	amp

### Mechanical:

Mounting Position . . . . .	Any
Maximum Overall Length . . . . .	4-17/32" ←
Seated Length . . . . .	3-25/32" ± 1/8" ←
Maximum Diameter . . . . .	1-9/16" ←
Dimensional Outline . . . . .	See General Section ←
Weight (Approx.) . . . . .	1.3 oz ←
Eulb . . . . .	ST-12 ←
Cap. . . . .	Small (JETEC No.C1-1) ←
Base . . . . .	Small-Shell Small 4-Pin (JETEC No.A4-5) ←
Basing Designation for BOTTOM VIEW . . . . .	4AB ←

- Pin 1 - Heater
- Pin 2 - No Connection
- Pin 3 - No Connection



- Pin 4 - Heater, Cathode
- Cap - Plate

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### Maximum Ratings, Design-Center Values:

PEAK INVERSE PLATE VOLTAGE . . . . .	12500 max.	volts
PEAK PLATE CURRENT . . . . .	60 max.	ma
DC OUTPUT CURRENT . . . . .	7.5 max.	ma
HOT-SWITCHING TRANSIENT CURRENT, for duration of 0.2 second max. . . . .	100 max.	ma
AMBIENT TEMPERATURE . . . . .	70 max.	oC ←

### Typical Operation:

AC Plate-Supply Voltage (RMS) . . . . .	5500	volts
Total Effective Plate-Supply Impedance . . .	0.3	megohm
Filter Input Capacitor . . . . .	0.1	μf
DC Output Current . . . . .	2	ma
DC Output Voltage (At input to filter) . . .	4500	volts

## SHOCK TEST DATA

Impact Acceleration . . . . .	250 max.	g
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This test is performed on a sample lot of tubes from each production run to determine ability of tube to withstand the specified impact acceleration. The tubes are subjected to a total of 3 blows in each of the 3 primary mutually

← Indicates a change.

SEPT. 1, 1955

TUBE DIVISION

DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

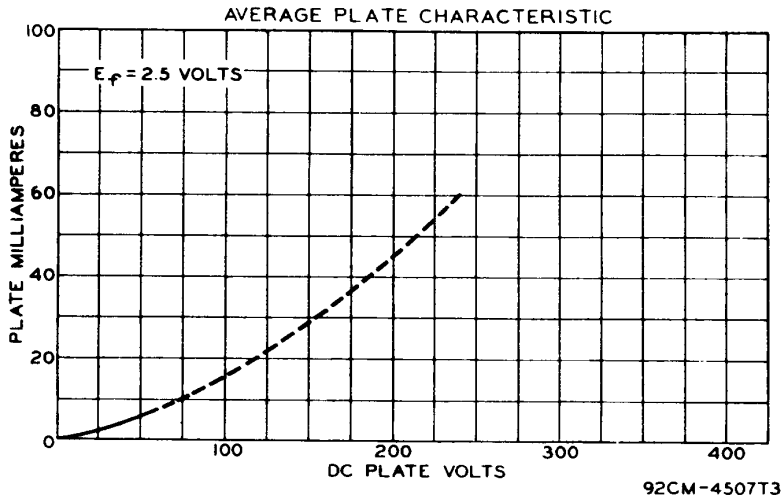
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### HALF-WAVE VACUUM RECTIFIER

perpendicular tube planes when tested in the Navy Type, High-Impact (flyweight) Shock Machine. At the end of this test, tubes will not show permanent or temporary shorts or open circuits, and will not be inoperative.



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