1AX2
HALF-WAVE VACUUM RECTIFIER

9-PIN MINIATURE TYPE

GENERAL DATA

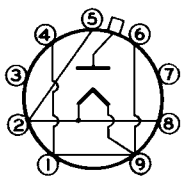
Electrical:

Filament, Coated:		
Voltage	1.4	ac volts
Current	0.65	amp
Direct Interelectrode Capacitance:[o]		
Plate to filament	0.7 max.	μμf

Mechanical:

Mounting Position	Any
Maximum Overall Length	2-27/32"
Seated Length	2-7/16" ± 1/8"
Maximum Diameter	7/8"
Dimensional Outline	*See General Section*
Bulb	T-6-1/2
Cap	Skirted Miniature (JETEC No.C1-2 or C1-33)
Base	Small-Button Noval 9-Pin (JETEC No.E9-1)
Basing Designation for BOTTOM VIEW	9Y

Pin 1 - Filament, Internal Shield
Pin 2 - Filament
Pin 3 - No Connection♦
Pin 4 - Same as Pin 1



Pin 5 - Same as Pin 2
Pin 6 - Same as Pin 1
Pin 7 - Same as Pin 3
Pin 8 - Same as Pin 2
Pin 9 - Same as Pin 1
Cap - Plate

PULSED-RECTIFIER SERVICE

Maximum Ratings, *Design-Center Values Except as Noted:*

For operation in a 525-line, 30-frame system[□]

PEAK INVERSE PLATE VOLTAGE (Absolute maximum)	25000[■]	max.	volts
PEAK PLATE CURRENT	11	max.	ma
AVERAGE PLATE CURRENT	1	max.	ma

Typical Operation:

Peak Plate Supply Voltage:		
Positive pulse value	20000	volts
Negative pulse value	5000	volts
DC Output Voltage (Approx.)	20000	volts
DC Output Current (Approx.)	300	μamp

[o] Without external shield.

♦ May be connected to one side of filament, or used as a tie point for filament dropping resistor; otherwise do not use.

□ As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations", Federal Communications Commission.

■ Under no circumstances should this absolute value be exceeded.

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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OPERATING CONSIDERATIONS

Filament Voltage Adjustment. When the filament is supplied from an rf source and is at a high dc potential above ground, adjustment of the filament voltage by direct measurement is impractical. To insure that the rated voltage is applied to the filament, a simple method utilizing a visual color match of two incandescent filaments in a darkened room may be used. In this method, the rf filament voltage, obtained from a pulse-power source, is adjusted until the color of this filament matches that of the filament of another 1AX2 operated from a dc or low-frequency ac supply of 1.4 volts.

X-rays. The voltages employed in some television receivers and other high-voltage equipment are sufficiently high that high-voltage rectifier tubes may produce X-rays which can constitute a health hazard unless such tubes are adequately shielded. Relatively simple shielding should prove adequate, but the need for this precaution should be considered in equipment design.

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