



IAX2

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. μuf

Mechanical:

Mounting Position Any

Maximum Overall Length 2-27/32"

Seated Length 2-7/16" \pm 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

Pin 5 - Same as Pin 2

Shield

Pin 6 - Same as Pin 1

Pin 2 - Filament

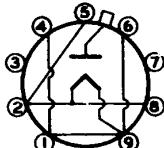
Pin 7 - Same as Pin 3

Pin 3 - No Connec-
tion♦

Pin 8 - Same as Pin 2

Pin 4 - Same as Pin 1

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

♦ 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.

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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 IAX2 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.