



IV2

# HALF-WAVE VACUUM RECTIFIER

9-PIN MINIATURE TYPE

IV2

## GENERAL DATA

### Electrical:

Filament, Coated:

Voltage\* . . . . . 0.625 . . . . . ac volt

Current . . . . . 0.3 . . . . . amp

Direct Interelectrode Capacitance (Approx.):<sup>o</sup>

Plate to filament . . . . . 0.8  $\mu\mu\text{f}$

### Mechanical:

Operating Position . . . . . Any

Maximum Overall Length . . . . . 2-3/16"

Maximum Seated Length . . . . . 1-15/16"

Length, Base Seat to Bulb Top (Excluding tip) . 1-9/16"  $\pm$  3/32"

Maximum Diameter . . . . . 7/8"

Dimensional Outline . . . . . See General Section

Bulb . . . . . T6-1/2

Base . . . . . Small-Button Noval 9-Pin (JETEC No. E9-1)

Basing Designation for BOTTOM VIEW . . . . . 9U

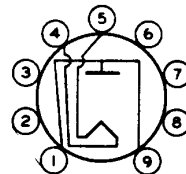
Pin 1 - Plate

Pin 2 - Internal

Connection -  
Do Not Use

Pin 3 - Same as Pin 2

Pin 4 - Filament



Pin 5 - Filament

Pin 6 - No Connection  $\blacklozenge$

Pin 7 - Same as Pin 2

Pin 8 - Same as Pin 2

Pin 9 - Plate

## PULSED-RECTIFIER SERVICE

Maximum Ratings, Design-Center Values Except as Noted:

For operation in a 525-line, 30-frame system<sup>□</sup>

INVERSE PLATE VOLTAGE:

Total dc and peak

(Absolute maximum)<sup>⊕</sup> . . . . . 8250<sup>■</sup> max. volts

DC . . . . . 6600 max. volts

PEAK PLATE CURRENT . . . . . 10 max. ma

AVERAGE PLATE CURRENT . . . . . 0.5 max. ma

\* Under no circumstances should the filament voltage be less than 0.525 volt or more than 0.725 volt.

<sup>o</sup> Without external shield.

$\blacklozenge$  May be used for a tie point for components at or near filament potential; otherwise do not use.

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

<sup>⊕</sup> The duration of the voltage pulse must not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.

<sup>■</sup> Under no circumstances should this absolute value be exceeded.

←Indicates a change.

1V2



1V2

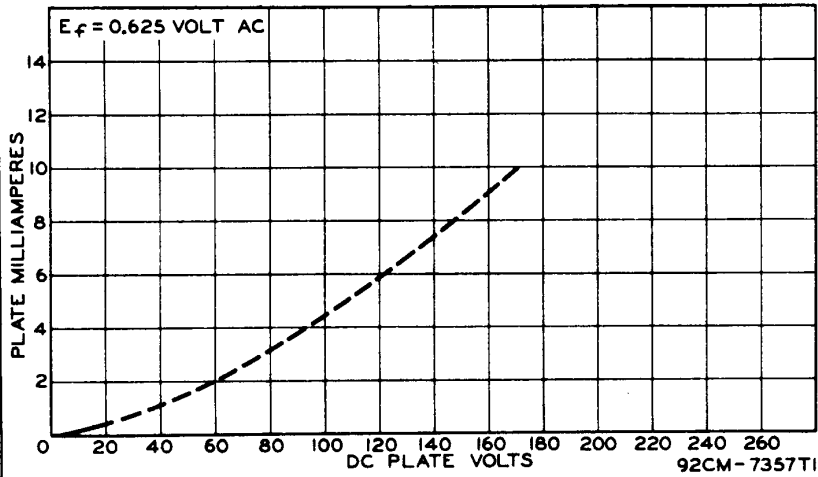
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### OPERATING CONSIDERATIONS

When the *filament voltage* is measured, it is recommended that a thermal rms voltmeter be used. The meter and its leads must be insulated to withstand 15,000 volts and the stray capacitances to ground should be minimized.

To provide the required insulation in Noval sockets designed with a cylindrical center shield, it is necessary to remove the center shield.

### AVERAGE PLATE CHARACTERISTIC



→ Indicates a change.