

Full-Wave Vacuum Rectifier

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC). 6.3 volts
 Current 1 amp

Mechanical:

Operating Position. Any
 Maximum Overall Length. 3-1/16"
 Maximum Seated Length 2-13/16"
 Length, Base Seat to Bulb Top (Excluding tip) . 2-7/16" $\pm$ 3/32"
 Diameter. 0.750" to 0.875"
 Dimensional Outline See *General Section*
 Bulb. T6-1/2
 Base. Small-Button Noval 9-Pin (JEDEC No.E9-1)
 Basing Designation for BOTTOM VIEW. 9M

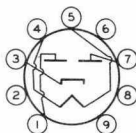
Pin 1-Plate No.1

Pin 2-No Connection

Pin 3-Cathode

Pin 4-Heater

Pin 5-Heater



Pin 6-No Connection

Pin 7-Plate No.2

Pin 8-No Connection

Pin 9-No Connection

FULL-WAVE RECTIFIER

Maximum Ratings, Design-Center Values:

PEAK INVERSE PLATE VOLTAGE. 1000 max. volts

AC PLATE SUPPLY VOLTAGE PER PLATE (RMS):

With capacitor-input to filter. 350 max. volts

PEAK PLATE CURRENT PER PLATE. 450 max. ma

DC OUTPUT CURRENT 150 max. ma

HOT-SWITCHING TRANSIENT PLATE CURRENT

PER PLATE:

Even occasional hot-switching with capacitor-input circuits permits the flow of plate current having magnitudes which can adversely affect the life and reliability of tubes. If capacitor-input circuits are to be used, protect the circuits against possible adverse effects of hot-switching by the use of a circuit arrangement which will limit the maximum peak current value per plate to a value of 1 ampere during the initial cycles of the hot-switching transient.

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. . 500 max. volts



6CA4

Typical Operation:

With capacitor input to filter

AC Plate-To-Plate Supply

Voltage (RMS)	500	600	700	volts
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Filter-Input Capacitor	50	50	50	μ f
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Total Effective Plate-Supply

Impedance Per Plate	150	200	240	ohms
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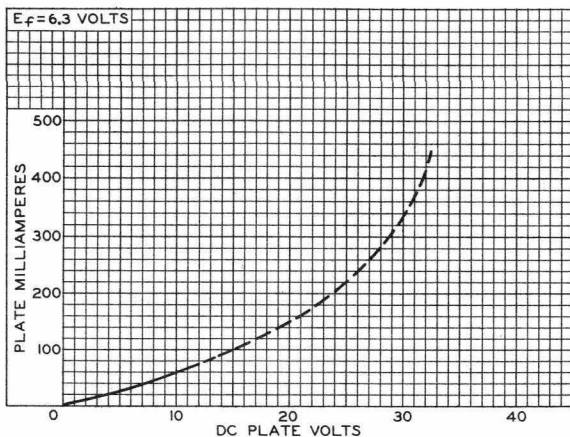
DC Output Voltage at Input to

Filter (Approx.) for dc output

ma. = 150.	245	293	347	volts
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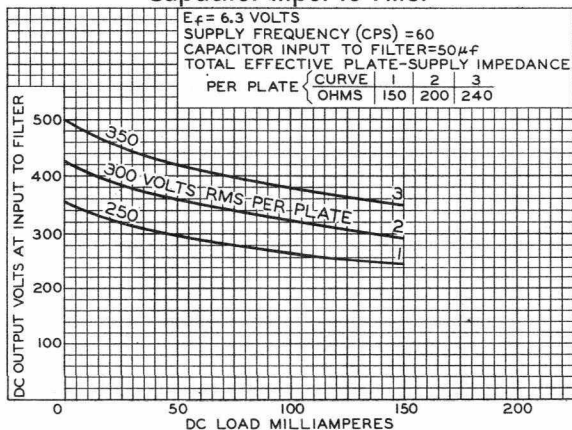


AVERAGE PLATE CHARACTERISTIC Each Unit



92CS-10378

OPERATION CHARACTERISTICS Capacitor Input to Filter



92CS-10379



