

6CA4

Full-Wave Vacuum Rectifier

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

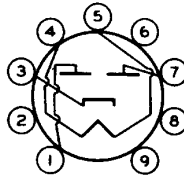
Heater, for Unipotential Cathode:

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" ± 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:

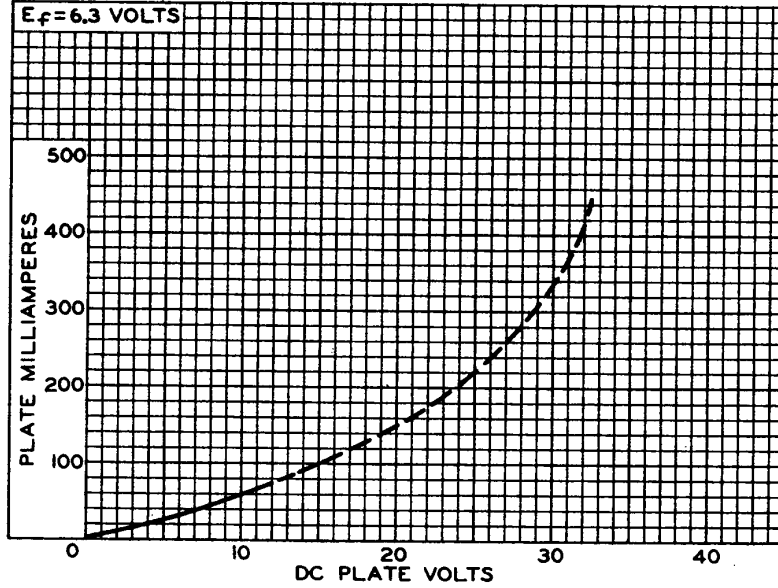
With capacitor input to filter

AC Plate-To-Plate Supply				
Voltage (RMS)	500	600	700	volts
Filter-Input Capacitor	50	50	50	μ f
Total Effective Plate-Supply				
Impedance Per Plate	150	200	240	ohms
DC Output Voltage at Input to				
Filter (Approx.) for dc output				
ma. = 150.	245	293	347	volts



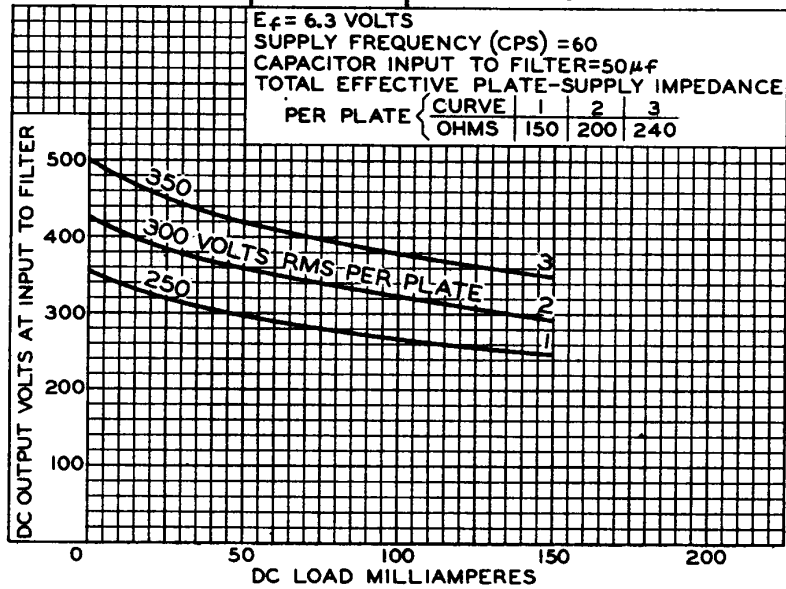
6CA4

AVERAGE PLATE CHARACTERISTIC Each Unit



92CS-10378

OPERATION CHARACTERISTICS Capacitor Input to Filter



92CS-10379



RADIO CORPORATION OF AMERICA
 Electron Tube Division
 Harrison, N. J.

DATA 2
 8-60