

*Protel*  
*10/60* **5Y4GA**

## Full-Wave Vacuum Rectifier

### GENERAL DATA

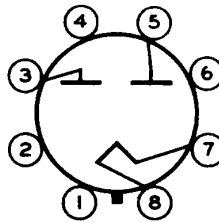
**Electrical:**

Filament, Coated:  
 Voltage (AC or DC) . . . . . 5 volts  
 Current . . . . . 2 amp

**Mechanical:**

Operating Position . . . . . Vertical, base down or up, or  
 Horizontal with pins 1 and 4 in vertical plane  
 Maximum Overall Length . . . . . 4-5/8"  
 Maximum Seated Length . . . . . 4-1/16"  
 Diameter . . . . . 1.438" to 1.562"  
 Bulb . . . . . T12  
 Base . . . . . Short Medium-Shell Octal 8-Pin  
 with External Barriers, Style B (JEDEC Group 1,  
 No.88-118), or Style A (JEDEC Group 1, No.88-110)  
 Basing Designation for BOTTOM VIEW . . . . . 50

Pin 1 - No Connection  
 Pin 2 - No Connection  
 Pin 3 - Plate No.2  
 Pin 4 - No Connection



Pin 5 - Plate No.1  
 Pin 6 - No Connection  
 Pin 7 - Filament  
 Pin 8 - Filament

### FULL-WAVE RECTIFIER

**Maximum Ratings, Design-Center Values:**

*For power-supply frequencies of 25 to 1000 cps*

PEAK INVERSE PLATE VOLTAGE . . . . . 1400 max. volts  
 AC PLATE SUPPLY VOLTAGE PER PLATE  
 (RMS, without load) . . . . . See Rating Chart  
 STEADY-STATE PEAK PLATE CURRENT  
 PER PLATE . . . . . 400 max. ma  
 TRANSIENT PEAK PLATE CURRENT PER PLATE. . . 2.2 max. amp  
 DC OUTPUT CURRENT . . . . . See Rating Chart

**Typical Operation:**

	<i>With capacitor- input filter</i>	<i>With choke- input filter</i>	
AC Plate-to-Plate Supply Voltage (RMS, without load) . . . . .	700	1000	volts
Filter-Input Capacitor <sup>a</sup> . . . . .	10	-	μf
Filter-Input Choke . . . . .	-	10	henrys
Total Effective Plate Supply Impedance Per Plate. . . . .	50	-	ohms



**RADIO CORPORATION OF AMERICA**  
 Electron Tube Division

Harrison, N. J.

DATA  
 7-61

# 5Y4GA

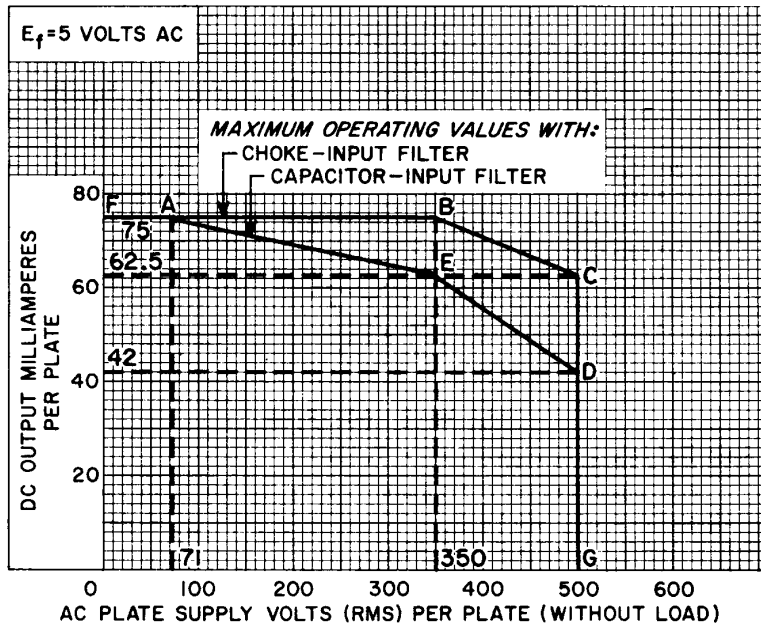
DC Output Voltage at input  
to filter. . . . . 350 390 volts  
DC Output Current. . . . . 125 125 ma

**Characteristics, Instantaneous Test Condition:**

Tube-Voltage Drop for plate ma. = 125  
(Per plate). . . . . 60 volts

<sup>a</sup> Values of capacitance greater than 10  $\mu$ f may be used, provided the plate supply impedance is increased to prevent exceeding the maximum peak-plate-current rating.

## RATING CHART



92CS-11208

