

5Y3GT

Full-Wave Vacuum Rectifier

GENERAL DATA

Electrical:

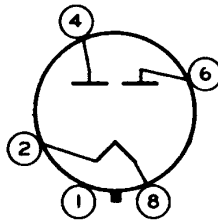
Filament, Coated:

Voltage (AC or DC) 5 volts
 Current 2 amp

Mechanical:

Operating Position. Vertical, base down or up, or ←
 Horizontal with pins 2 and 4 in vertical plane
 Maximum Overall Length. 3-3/8"
 Maximum Seated Length 2-13/16"
 Maximum Diameter. 1-9/32" ←
 Dimensional Outline See *General Section*
 Bulb. T9
 Base. Intermediate-Shell Octal 5-Pin, ←
 Arrangement 1 (JEDEC Group 1, No.B5-10), or
 Short Intermediate-Shell Octal 5-Pin
 with External Barriers, Arrangement 1
 (JEDEC Group 1, No.B5-62)
 Basing Designation for BOTTOM VIEW. 5T

Pin 1 - No Connection
 Pin 2 - Filament



Pin 4 - Plate No.2
 Pin 6 - Plate No.1
 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 I*
 STEADY-STATE PEAK PLATE CURRENT
 PER PLATE (See *Rating Chart II*) 440 max. ma
 TRANSIENT PEAK PLATE CURRENT
 PER PLATE (See *Rating Chart III*). 2.5 max. amp
 DC OUTPUT CURRENT See *Rating Chart I*

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 ^a	20	-	μf

← Indicates a change.



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

DATA 1
 7-61

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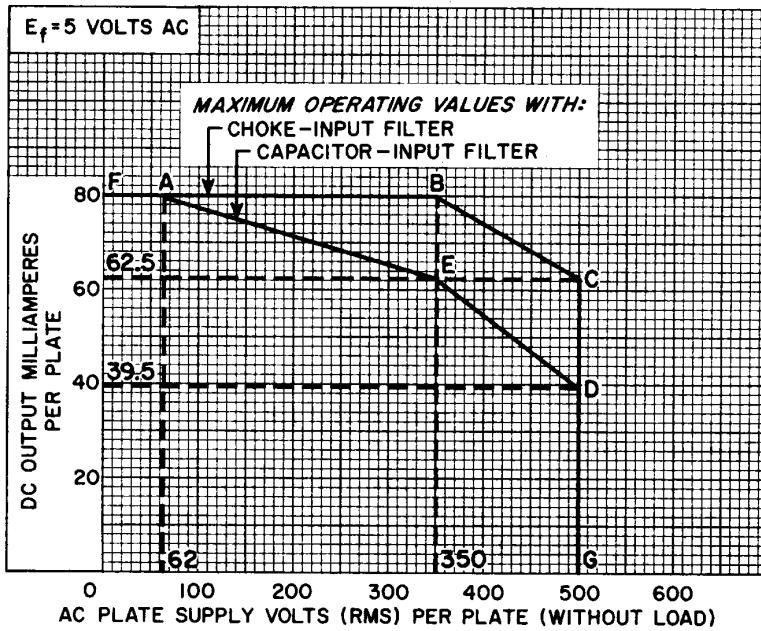
Filter-Input Choke	-	10	henrys
Total Effective Plate Supply Impedance			
Per Plate	50	-	ohms
DC Output Voltage at input to filter	360	380	volts
DC Output Current	125	125	ma

→ **Characteristics, Instantaneous Test Condition:**

Tube-Voltage Drop for plate ma. = 125
 (Per plate) 50 volts

^a Values of capacitance greater than 20 μf may be used, provided the plate supply impedance is increased to prevent exceeding the maximum peak-plate-current rating.

RATING CHART I



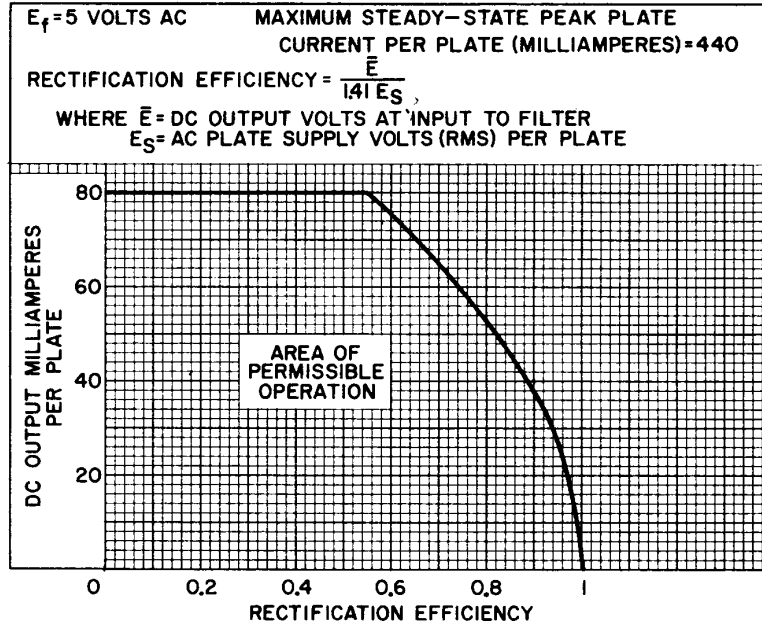
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→ Indicates a change.



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RATING CHART II Capacitor-Input Filter



RATING CHART III Capacitor-Input Filter

