

Full-Wave Vacuum Rectifier

GENERAL DATA

Electrical:

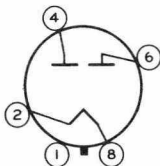
Filament, Coated:

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:

With capacitor- With choke-
input filter input filter

AC Plate-to-Plate Supply
 Voltage (RMS, without
 load) 700 1000 volts
 Filter-Input Capacitor^a 20 — μ f

← Indicates a change.



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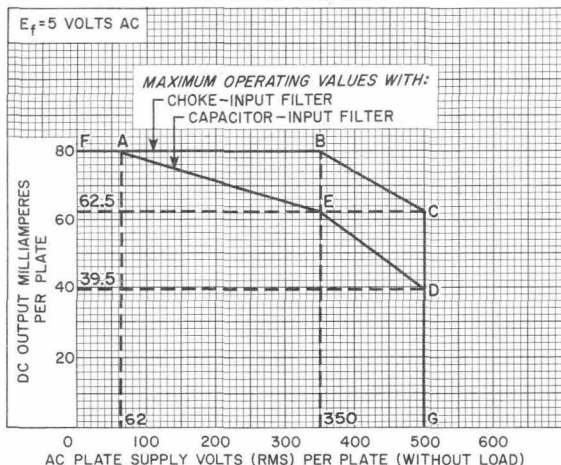
Filter-Input Choke.	-	10	henrys
Total Effective Plate Supply Impedance			
Per Plate	50	-	ohms
DC Output Voltage at input to filter	360	380	volts
DC Output Current	125	125	ma

→ Characteristics, Instantaneous Test Condition:

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

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

RATING CHART I

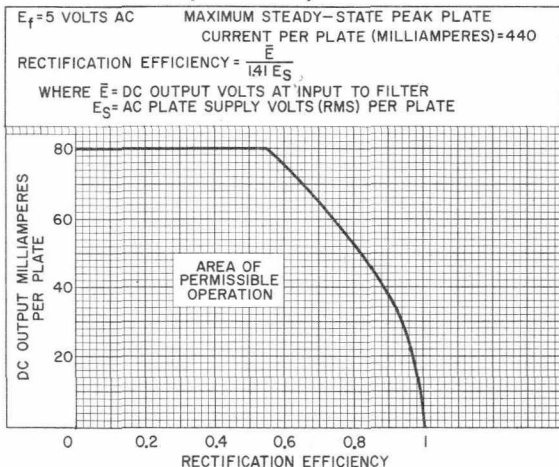


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→ Indicates a change.



RATING CHART II Capacitor-Input Filter



RATING CHART III Capacitor-Input Filter

