

5U4GB

Full-Wave Vacuum Rectifier

GENERAL DATA

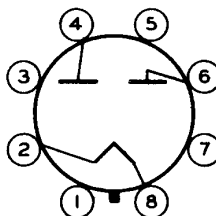
Electrical:

Filament, Coated:
 Voltage (AC or DC) 5 volts
 Current 3 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 5-Pin
 with External Barriers, Style B, Arrangement 1
 (JEDEC Group 1, No. B5-121), or
 Short Medium-Shell Octal 8-Pin
 with External Barriers, Style B (JEDEC Group 1, No. B8-118)
 Basing Designation for BOTTOM VIEW. 5T

Pin 1 - No Connection
 Pin 2 - Filament
 Pin 3^a - No Connection



Pin 4 - Plate No. 2
 Pin 5 - Same as Pin 3
 Pin 6 - Plate No. 1
 Pin 7 - Same as Pin 3
 Pin 8 - Filament

FULL-WAVE RECTIFIER

Maximum Ratings, Design-Center Values:

For power-supply frequencies of 25 to 1000 cps

PEAK INVERSE PLATE VOLTAGE. 1550 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) 1 max. amp
 TRANSIENT PEAK PLATE CURRENT
 PER PLATE (See Rating Chart III). 4.6 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)	600	900	1100	volts
Filter-Input Capacitor ^b	40	40	-	μf
Filter-Input Choke.	-	-	10	henrys

← Indicates a change.



5U4GB

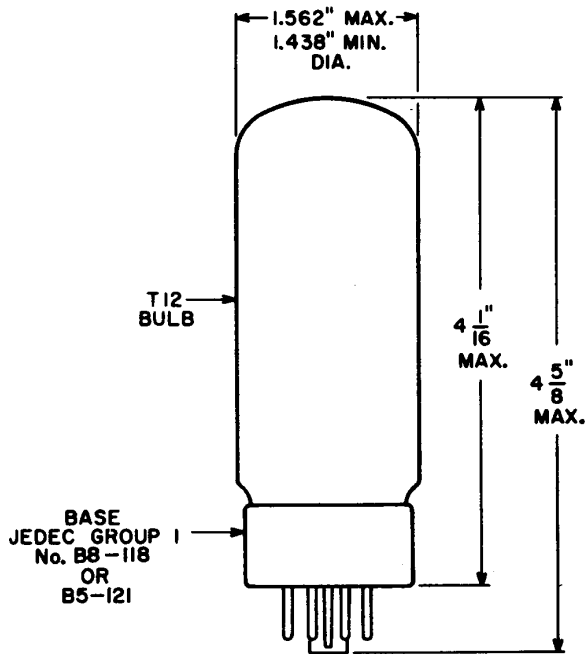
Total Effective Plate Supply Impedance					
Per Plate	21	67	-	ohms	
DC Output Voltage at input to filter					
	290	460	420	volts	
DC Output Current					
	300	275	275	ma	

→ **Characteristics:**

Tube Voltage Drop for plate ma. (Per plate) =					
225				44	volts
275				50	volts
300				54	volts

- ^a On the 5-pin base, pins 3, 5, and 7 are omitted.
- ^b Values of capacitance greater than 40 μ f may be used, provided the plate supply impedance is increased to prevent exceeding the maximum peak-plate-current rating.

→ Indicates a change.

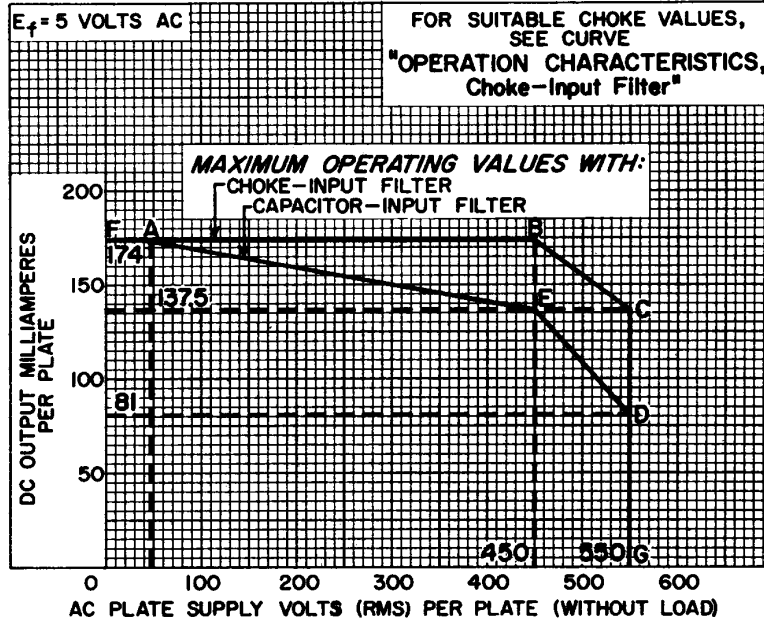


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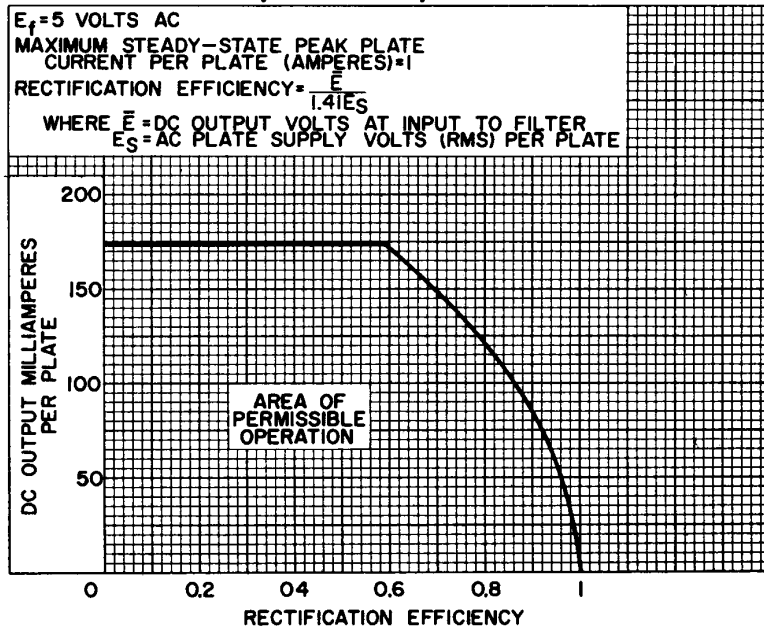


5U4GB

RATING CHART I

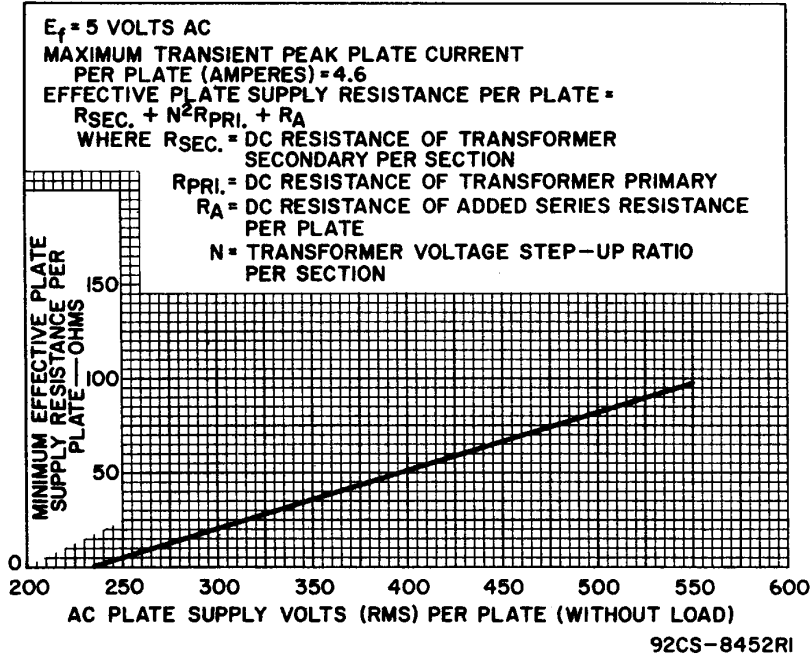


RATING CHART II Capacitor-Input Filter



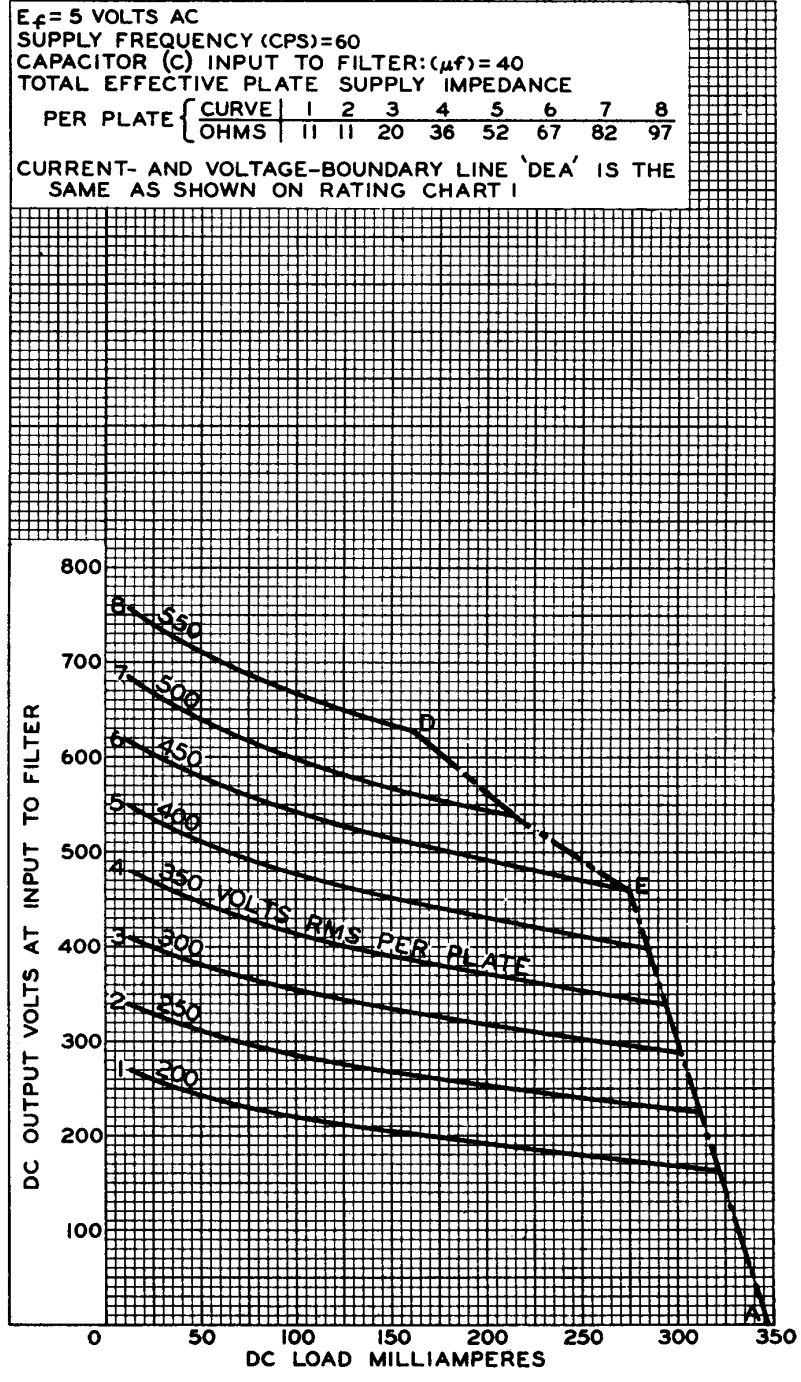
5U4GB

RATING CHART III Capacitor-Input Filter



5U4GB

OPERATION CHARACTERISTICS Full-Wave Circuit, Capacitor-Input Filter



92CM-8446RI



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

DATA 3
7-61

5U4GB

OPERATION CHARACTERISTICS Full-Wave Circuit, Choke-Input Filter

$E_f = 5$ VOLTS AC
SUPPLY FREQUENCY (CPS) = 60
SOLID LINE CURVES = CHOKES OF INFINITE INDUCTANCE
LONG-DASH LINES = BOUNDARY LINES FOR CHOKE SIZES AS SHOWN
SHORT-DASH CURVES = REGULATION CURVES FOR REPRESENTATIVE CHOKE SIZES
CURRENT AND VOLTAGE-BOUNDARY LINE 'CBA' IS THE SAME AS SHOWN ON RATING CHART I

