

Full-Wave Vacuum Rectifier

GENERAL DATA

Electrical:

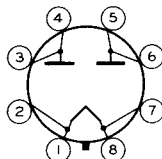
Filament, Coated:

Voltage (AC or DC) 5 ± 10% volts
 Current at 5 volts. 3^a amp

Mechanical:

Operating Position. Vertical, base down or up, or
 Horizontal with pins 2 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. B8-118), or
 Style A (JEDEC Group 1, No. B8-110)
 Basing Designation for BOTTOM VIEW. 8KS

Pin 1 } Filament
 Pin 2 }
 Pin 3 - Plate No. 2
 Pin 4 - Plate No. 2



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

FULL-WAVE RECTIFIER

Maximum Ratings, Design-Maximum Values:

For power-supply frequencies of 25 to 1000 cps

PEAK INVERSE PLATE VOLTAGE. 1700 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). 5 max. amp
 DC OUTPUT CURRENT See Rating Chart I

Typical Operation:

	With capacitor- input filter		With choke- 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
Total Effective Plate Supply Impedance Per Plate	21	67	-	ohms

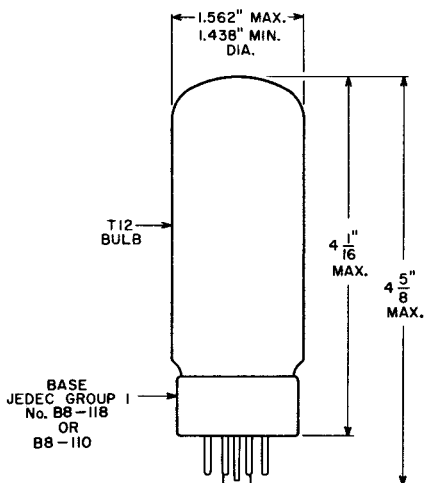


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DC Output Voltage at input to filter	290	460	420	volts
DC Output Current	300	275	275	ma

a Or 1.5 amperes per base pin.

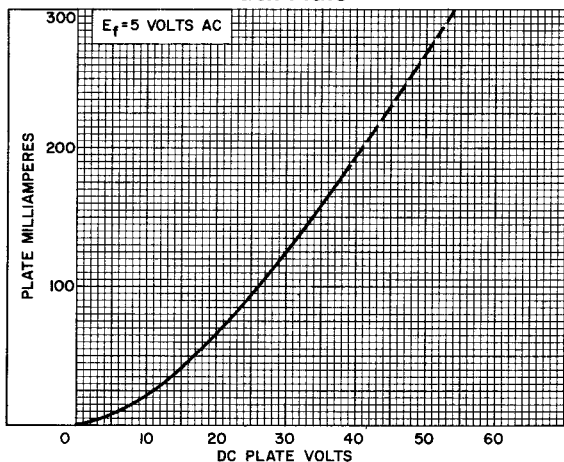
b Values of capacitance greater than $40 \mu\text{f}$ may be used, provided the plate supply impedance is increased to prevent exceeding the maximum peak-plate-current rating



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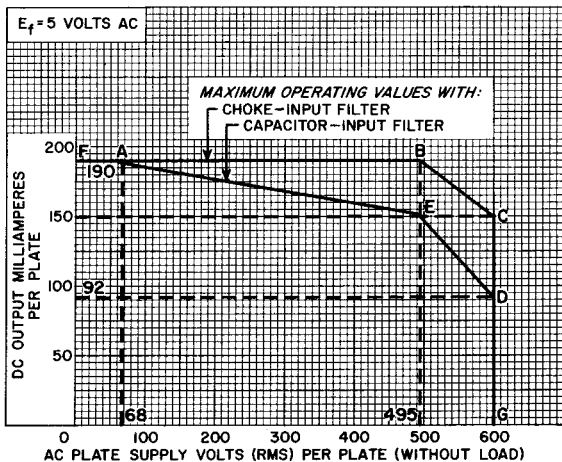


AVERAGE PLATE CHARACTERISTIC Each Plate



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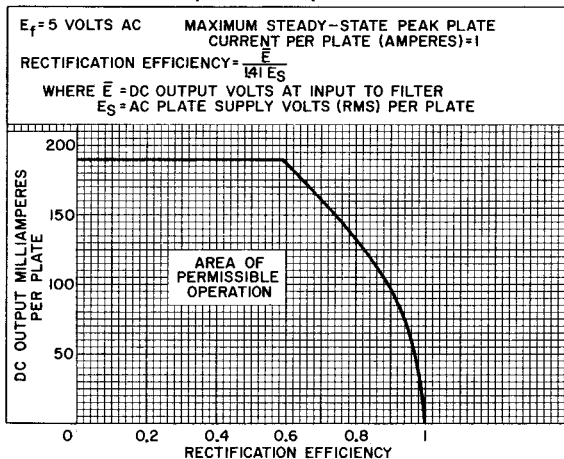
RATING CHART I



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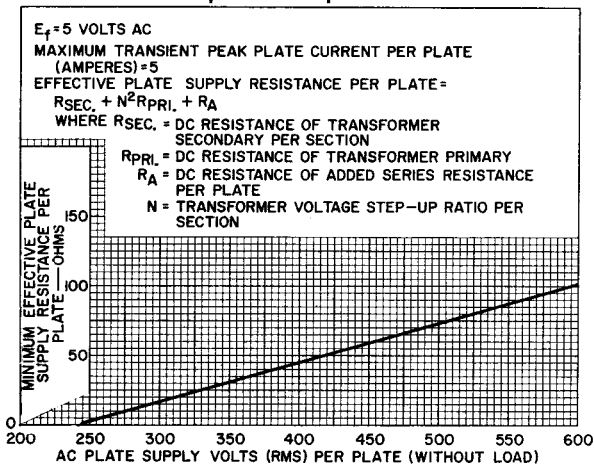


RATING CHART II Capacitor-Input Filter



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RATING CHART III Capacitor-Input Filter



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