

Full-Wave Vacuum Rectifier

GENERAL DATA

Electrical:

Filament, Coated:

Voltage (AC or DC) 5 $\pm$ 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"

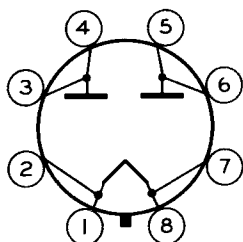
Diameter. 1.438" to 1.562"

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:

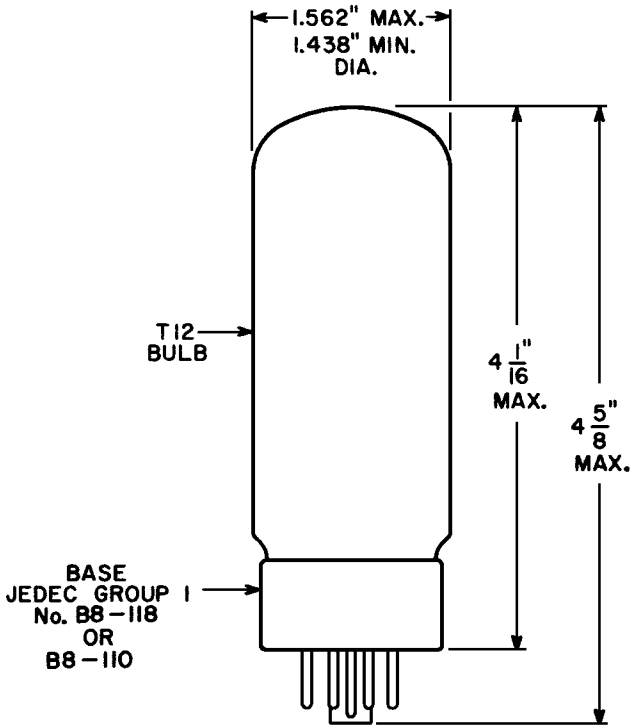
	With capacitor- input filter		With choke- input filter	
AC Plate-to-Plate Supply Voltage (RMS, without load) . .	600	900	1100	volts
Filter-Input Capacitor ^b .	40	40	-	μ f
Filter-Input Choke. . . .	-	-	10	henrys
Total Effective Plate Supply Impedance				
Per Plate	21	67	-	ohms



5DJ4

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

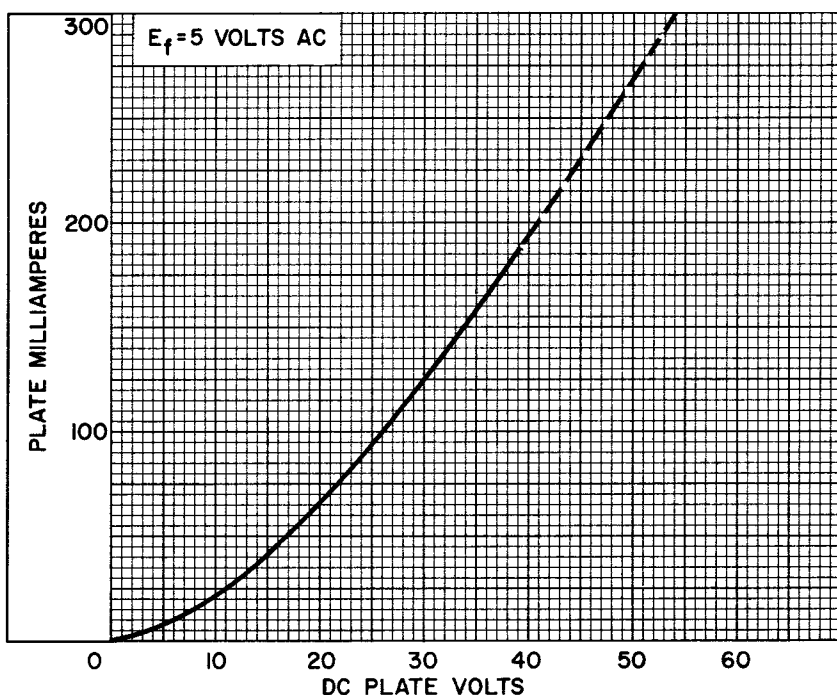
- ^a Or 1.5 amperes per base pin.
- ^b Values of capacitance greater than 40 μ f may be used, provided the plate supply impedance is increased to prevent exceeding the maximum peak-plate-current rating



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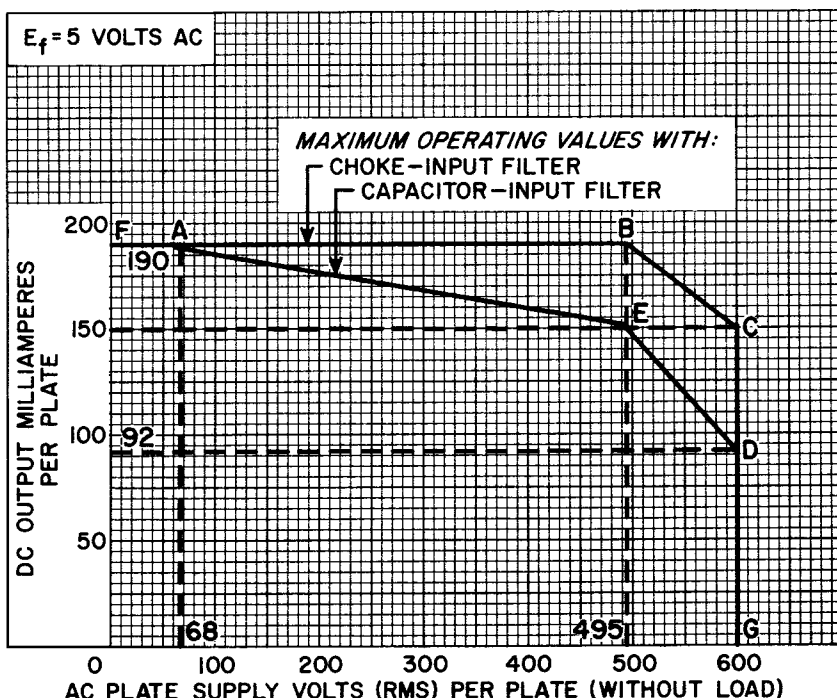


AVERAGE PLATE CHARACTERISTIC Each Plate



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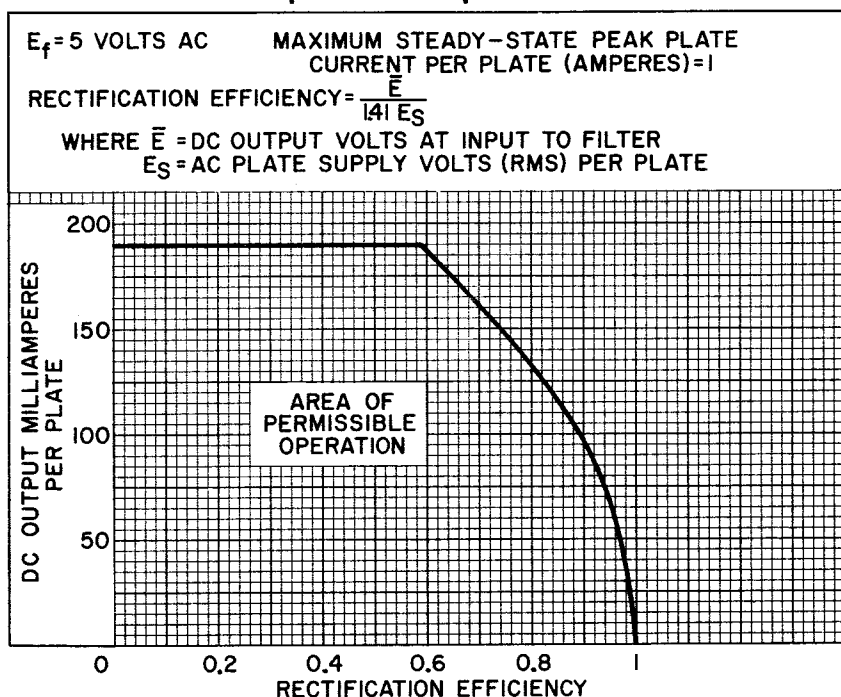
RATING CHART I



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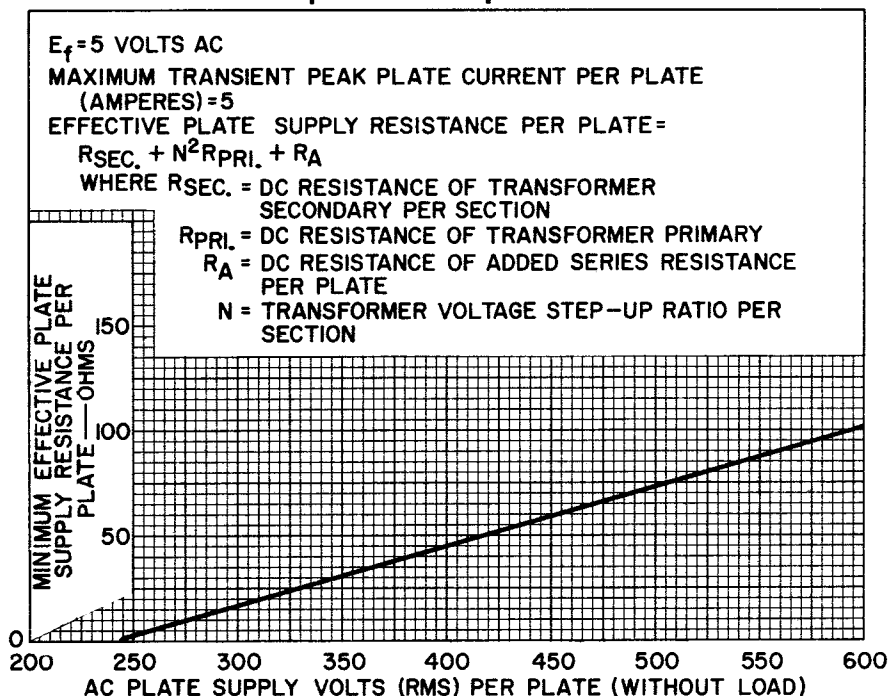


RATING CHART II Capacitor-Input Filter



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RATING CHART III Capacitor-Input Filter



92CS-11217