



5V4-GA

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FULL-WAVE VACUUM RECTIFIER*For use in full-wave power supplies having high dc requirements***GENERAL DATA****Electrical:**

Heater, for Unipotential Cathode:

Voltage. 5 ac or dc volts

Current. 2 amp

Mechanical:

Operating Position Any

Maximum Overall Length 3-7/8"

Maximum Seated Length. 3-5/16"

Maximum Diameter 1-9/16"

Bulb T12

Base Medium-Shell Octal 5-Pin (JETEC No.B5-15), or

Short Medium-Shell Octal 5-Pin

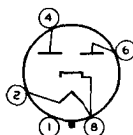
with External Barriers, Style B,

Arrangement 1 (JETEC No.B5-121)

Basing Designation for BOTTOM VIEW 5L

Pin 1 - No Connec-
tion

Pin 2 - Heater

Pin 4 - Plate of
Unit No.2Pin 6 - Plate of
Unit No.1Pin 8 - Heater,
Cathode**FULL-WAVE RECTIFIER****Maximum Ratings, Design-Center Values:**

PEAK INVERSE PLATE VOLTAGE 1400 max. volts

AC PLATE-SUPPLY VOLTAGE PER PLATE (RMS):

With capacitor-input filter. 375 max. volts

With choke-input filter. 500 max. volts

PEAK PLATE CURRENT PER PLATE 525 max. ma

DC OUTPUT CURRENT. 175 max. ma

HOT-SWITCHING TRANSIENT PLATE CURRENT

PER PLATE:

Even occasional hot-switching with capacitor-input circuits permits the flow of plate current having magnitudes which can adversely affect the life and reliability of tubes. If capacitor-input circuits are to be used, protect the circuits against the possibility of hot-switching and do not exceed a maximum peak current value per plate of 3.5 amperes during the initial cycles of the hot-switching transient. If hot-switching is required in operation, the use of choke-input circuits is recommended. Such circuits limit the hot-switching current to a value no higher than that of the peak plate current.



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Typical Operation:

With capacitor input to filter

AC Plate-to-Plate Supply Voltage (RMS) . .	750	volts
Filter-Input Capacitor*	10	μ f
Total Effective Plate-Supply Impedance		
Per Plate	100	ohms
DC Output Voltage at Input to Filter		
(Approx.) for dc output current of		
175 ma.	410	volts

With choke input to filter

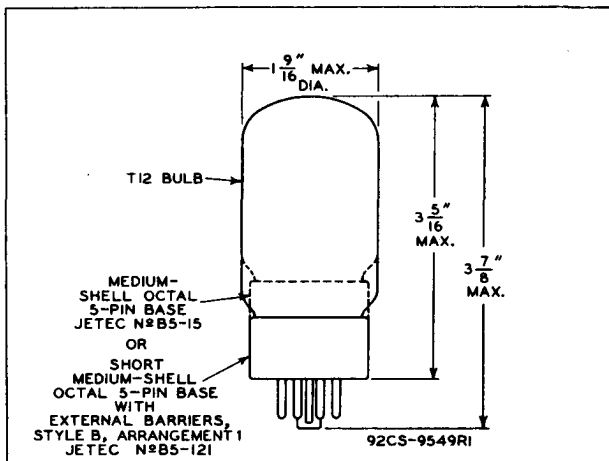
AC Plate-to-Plate Supply Voltage (RMS) . .	1000	volts
Filter-Input Choke.	4	henries
DC Output Voltage at Input to Filter		
(Approx.) for dc output current of		
175 ma.	410	volts

* Higher values of capacitance than indicated may be used, but the effective plate-supply impedance should be increased to prevent exceeding the maximum rating for peak plate current.



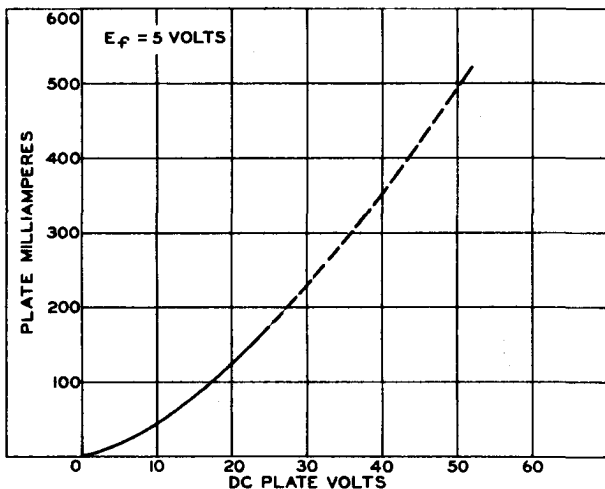
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CE-9549R1

AVERAGE PLATE CHARACTERISTIC EACH UNIT



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OPERATION CHARACTERISTICS FULL-WAVE RECTIFIER CIRCUIT

$E_f = 5$ VOLTS

SUPPLY FREQUENCY = 60 CPS

----- CHOKE (L) INPUT TO FILTER:
L = 4 HENRIES (MINIMUM)

----- } CAPACITOR (C) INPUT TO FILTER:
TOTAL EFFECTIVE PLATE-SUPPLY
IMPEDANCE PER PLATE = 100 OHMS

