

FULL-WAVE VACUUM RECTIFIER TYPE 5AW4

The 5AW4 is a glass-octal full-wave high-vacuum rectifier designed for service in power supplies of equipment requiring high current. The tube should be mounted vertically, but horizontal mounting is permissible if pins 1 and 4 are in a vertical plane. Like all power handling tubes, the 5AW4 should be adequately ventilated.

ELECTRICAL

Cathode..... Coated Filament
Heater:
Voltage (ac or dc) 5.0 Volts
Current 3.7 Amperes

MECHANICAL

Bulb T-12
Base Medium Shell Octal 5-Pin (JEDEC B5-15)
Basing 5T
Mounting Position Vertical or Horizontal with Pins
1 and 4 in Vertical Plane.

RECTIFIER SERVICE

MAXIMUM RATINGS (Note 1)

Design Center Values

Peak Inverse Plate Voltage 1550 max. Volts
Maximum AC Plate Supply Voltage
Each Plate (RMS) 550 max. Volts
Steady-State Peak Plate Current
Each Plate 0.75 max. Ampere
Transient Peak Plate Current
Each Plate (See Chart III) 4.0 max. Amperes

TYPICAL OPERATION AS FULL-WAVE RECTIFIER

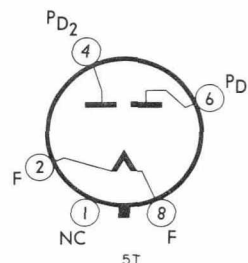
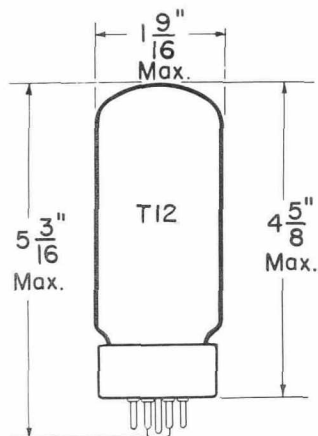
	Input to Filter Capacitor	Choke	
AC Plate Supply Voltage			
Each Plate (RMS)	450	550	Volts
Input Capacitor	10	—	μ f
Input Choke	—	10	Henrys
Effective Plate Supply			
Resistance Each Plate	153	—	Ohms
DC Output Current	250	250	Ma
DC Output Voltage at Filter Input	422	—	Volts

AVERAGE CHARACTERISTICS

Tube Voltage Drop with Tube Conducting
250 ma. Each Plate 46 Volts

NOTE

- All maximum ratings are not attainable at the same time. If operation is lenient in one parameter, it may be more severe in others.



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Receiving Tube Section

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