

Sheldon 5R4-G

Full-Wave High-Vacuum Rectifier (Tentative Data)

The 5R4-G is a coated filament type of Full-Wave, High-Vacuum Rectifier having a maximum peak plate current rating of 650 Milliampères and a maximum peak inverse voltage rating of 2800 volts.

ELECTRICAL

Filament Voltage (AC or DC) (1) 5.0 Volts
 Filament Current 2.0 Amps.

MECHANICAL

Bulb ST 16
 Base Medium Shell Octal, 5 Pin
 Jetec Designation B5-15
 Mounting Position Vertical (3)

MAXIMUM RATINGS AS FULL-WAVE RECTIFIER (Design Center Values)

Peak Inverse Voltage (No Load Conditions) 2800 Max. Volts
 Peak Plate Current 650 Max. MA.

WITH CONDENSER - INPUT FILTER:

A-C Plate Voltage Per Plate (RMS)
 Full Load 700 900 Volts
 No Load 750 1000 Volts

WITH CHOKE - INPUT FILTER:

A-C Plate Voltage Per Plate (RMS)
 Full Load 750 950 Volts
 No Load 850 1000 Volts

TOTAL EFFECTIVE PLATE-SUPPLY IMPEDANCE

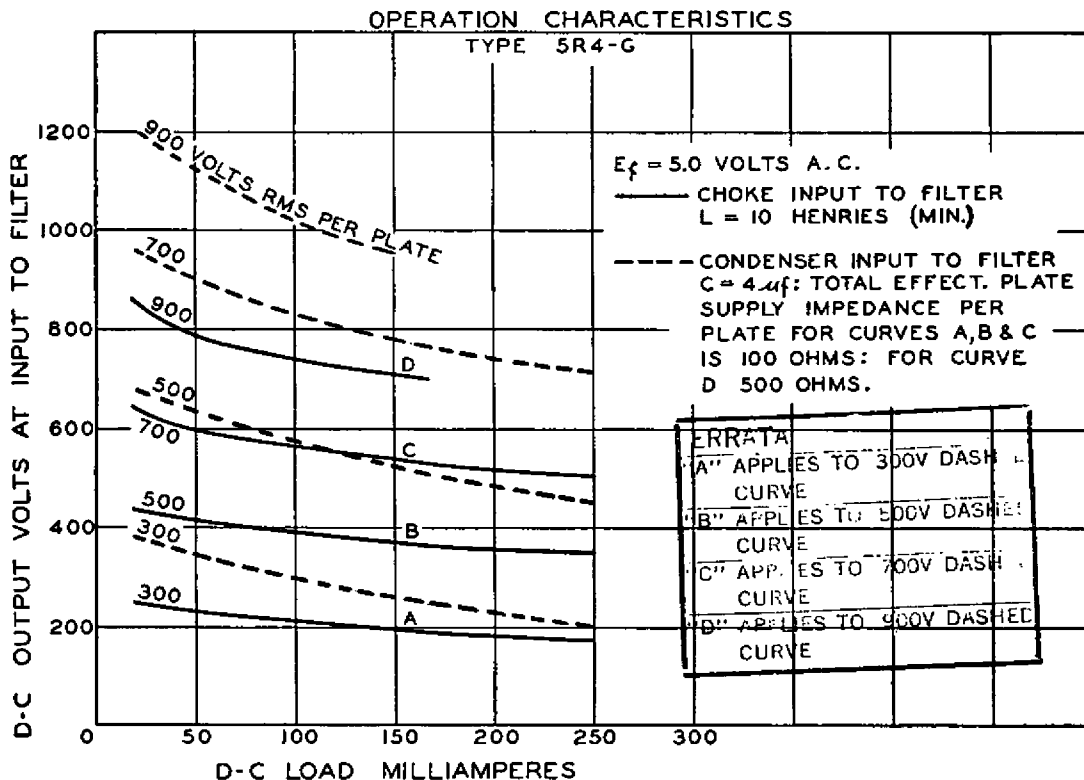
Per Plate (2) 125 575 Ohms
 D-C Output Current 250 Max. 150 Max. MA.

INPUT-CHOKE INDUCTANCE

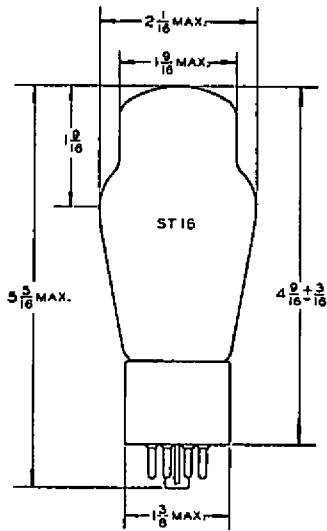
5 Min. 10 Min. Henries
 D-C Output Current 250 Max. 175 Max. MA.

NOTES

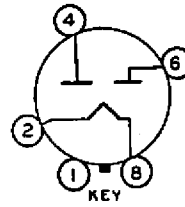
- (1) See curve of operating characteristics for restrictions on simultaneous application of filament and plate voltages.
- (2) When an Input-Filter capacitor larger than 4 mfd is used, it may be necessary to use more Plate-Supply Impedance to limit the peak plate current to the rated value.
- (3) Horizontal operation is permissible if pins 1 and 4 are in a vertical plane.



OUTLINE DRAWING



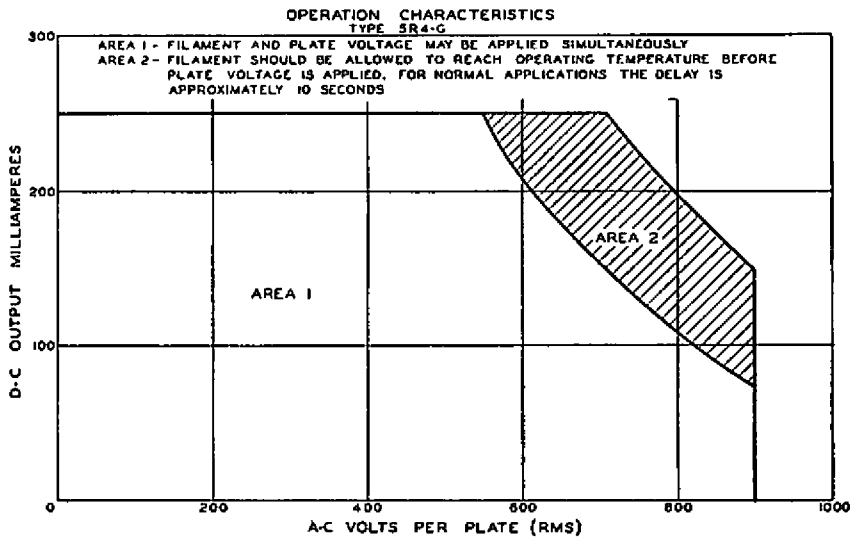
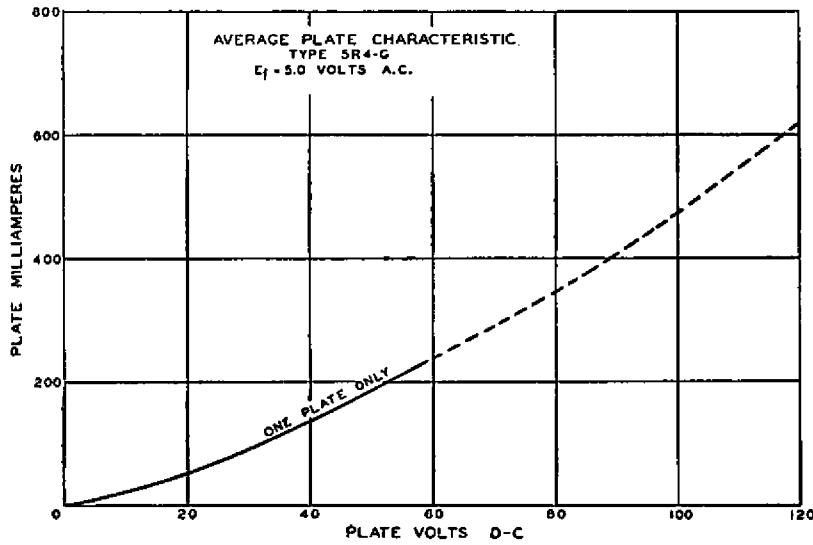
BASING DIAGRAM



RTMA DESIGNATION
5T

CONNECTIONS

- Pin 1 - No Connection
- Pin 2 - Filament
- Pin 4 - Plate (Diode No. 2)
- Pin 6 - Plate (Diode No. 1)
- Pin 8 - Filament



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