



## FULL-WAVE MERCURY VAPOR RECTIFIER

Coated Filament 5.0 Voltage 3.0 Current amp. 5-3/8" Maximum Overall Length 4-3/4" Maximum Seated Height 2-1/16" Maximum Diameter ST-16 Bulb Medium 4-Pin Base Pin 3-Plate #1 Pin 1-Filament Pin 2-Plate #2 Pin 4 - Filament Vertical base down Mounting Position BOTTOM VIEW (4C) FULL-WAVE RECTIFIER 1550 max. volts Peak Inverse Voltage 1.0 max. Peak Plate Current per Plate amo. Condensed Mercury Temperature Range  $20^{\circ} - 60^{\circ}$ C With Condenser-Input Filter: A-C Plate Voltage per Plate (RMS) 450 max. volts Total Effective Plate-Supply Impedance per Plate \* D-C Output Current 50 min. ohms 225 max. ma. With Choke-Input Filter: A-C Plate Voltage per Plate (RMS) 550 max. volts Input-Choke Inductance 3 min. henries 225 max. D-C Output Current ma. 15 approx. volts Tube Voltage Drop HALF-WAVE RECTIFIER As a half-wave rectifier, the 83 is operated with plates connected in parallel. Two 83's so connected in a full-wave circuit can supply twice the output current of a single tube. Both plates within the same tube should be connected to the same terminal of the plate transformer. To equalize the current distribution between plates, a resistor of not less than 50 ohms should be connected in series with each plate. When a filter-input condenser larger than 40 µf is used necessary to use more plate-supply impedance than the m shown to limit the peak plate current to the rated value. of is used, it may be than the minimum value it may be Indicates a change.

## 83-v

FULL-WAVE HIGH-VACUUM RECTIFIER Coated Unipotential Cathode\* Heater a-c volts 5.0 Voltage 2.0 Current amp. 4-11/16" Maximum Overall Length 4-1/16" Maximum Seated Height 1-13/16" Maximum Diameter ST-14 Bulb Medium 4-Pin Base

Pin 3-Plate #1 Pin 1-Heater

Pin 4-Heater & Pin 2-Plate #2 Cathode

Mounting Position For Curves and additional data, see Type 574-G.

The cathode of the 83-v is connected to the heater within the tube. Indicates a change.

BOTTOM VIEW (4AD)

Any