HALF-WAVE HIGH-VACUUM RECTIFIER

1/4-WATT FILAMENT TYPE

Filament
Coated
Voltage* 1.25 a-c volts
Current 0.2 amp.
Direct Interelectode Capacitance:
Plate to Filament 2.6 μf
Maximum Overall Length 4-3/8"
Maximum Diameter 1-5/16"
Bulb T-9
Cap Small Metal
Base Intermediate Shell Octal 6-Pin
RCA Socket Stock No. 9924
Pin 1-No Connection Pin 7-Filament
Pin 2-Filament Pin 8 (Internal Con.
Pin 3-No Connection Do Not Use
Pin 5-No Connection Cap -Plate
Mounting Position Preferably Vertical
with Base Down

BOTTOM VIEW

MAXIMUM RATINGS

Maximum Ratings Are Based on a Line-Voltage Design Center of 117 volts

Peak Inverse Voltage 10000 max. volts
Peak Plate Current 7.5 max. ma.
Average Plate Current 2 max. ma.
Frequency of Supply Voltage# 500 max. kc

* The design of the filament will permit the use, in continuous operation, of filament voltages within ±10% of the rated value without seriously affecting the life of the tube. If greater variations are encountered, it is recommended that some method be provided for automatically regulating the filament voltage.

* The 8016 because of its low-wattage filament and its low plate-filament capacitance is suitable for supplying high-voltage rectified power from an r-f source. When the filament is operated from an r-f source its temperature must never, under any conditions of operation, be allowed to reach a temperature higher than that caused by operating the filament at 1.75 volts from either a d-c or a low-frequency a-c source. An aperture is provided in the plate of the 8016 for observation of the filament temperature. Operation of the filament at a higher temperature than that corresponding to the 1.75-volt condition, even momentarily, is certain to cause damage to the tube even though the filament still lights.

AVERAGE PLATE CHARACTERISTIC

Jan. 30, 1942

RCA RADIOTRON DIVISION
TENTATIVE DATA
RCA MANUFACTURING COMPANY, INC.