



TYPE 217-C

HALF-WAVE HIGH-VACUUM RECTIFIER ENGINEERING INFORMATION

GENERAL RATINGS

Number of Electrodes 2
 Filament Voltage 10.0 volts
 Current 3.25 amperes
 Type Thoriated Tungsten

Operating Conditions:

Maximum Peak Inverse Voltage 7500 volts
 Maximum Peak Plate Current 600 ma.
 Average Plate Current 150 ma.

Maximum Overall Dimensions:

Length 8 1/2 inches
 Diameter 2 5/16 inches

Bulb T-18

Cap Medium Metal

Base Jumbo 4-Large Pin

Type of Cooling Air

Net Weight 7 oz.

INSTALLATION

The base of the UNITED 217-C is designed for mounting in a standard "50-Watt" socket of the four-pin, bayonet type. The tube should always be mounted vertically with ample air space provided for ventilation.

The filament of the 217-C should be operated on alternating current at the rated value of 5.0 volts. The socket should make good contact to the tube pins and adequate current-carrying capacity leads to the secondary winding of the power transformer should be used. Operation of the filament at less than the rated voltage may result in a high internal voltage drop with subsequent loss of emission. A filament voltmeter should be connected permanently across the filament circuit at the socket terminals in order that the filament voltage can be maintained at 10.0 volts. **Caution — The filament winding is at high potential.**

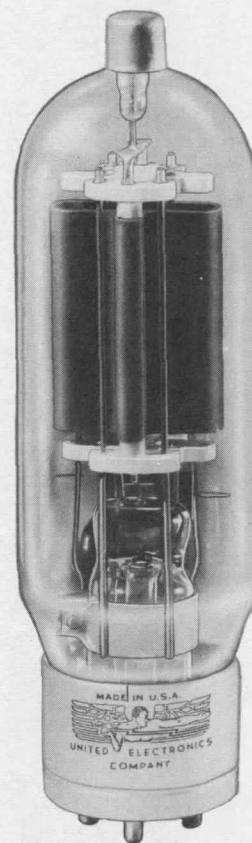
Connection to the anode terminal cap should be made by means of spring clips attached to flexible leads which must not touch the glass bulb. If vibration will be encountered in the applications, shock absorbing mounting details should be employed. Overload protection should be provided so that the voltage is removed if the current through the tube exceeds 150 per cent of the rated value.

When the 217-C is subjected during operation to external high voltage or high frequency fields, shielding and r-f filter circuits should be provided.

DESIGN AND CHARACTERISTIC FEATURES

The UNITED type 217-C is a tube of exceptional physical ruggedness. This design not only takes into account important electrical and thermal considerations, but end use conditions involving vibration and shock such as encountered in industrial electronic equipment.

All ratings given are for continuous service. Higher ratings are permissible for intermittent operation. Additional data will be furnished upon request.



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This tube is particularly adapted to use in high voltage circuits where the operating conditions preclude the use of gas-filled or mercury vapor tubes.

