



TYPE 371-B

HALF-WAVE HIGH-VACUUM RECTIFIER

ENGINEERING INFORMATION

GENERAL RATINGS

Number of Electrodes	2
Filament Voltage	5.0 volts
Current	10.3 amperes
Type	Thoriated Tungsten
Operating Conditions:	
Maximum Peak Inverse Voltage.....	25,000 volts
Maximum Peak Plate Current.....	1.5 amperes
Average Plate Current.....	300 ma.
Maximum Overall Dimensions:	
Length	8 3/4 inches
Diameter	2 1/4 inches
Bulb	T-18
Cap	Small Metal
Base	Jumbo 4-Pin, Bayonet
Type of Cooling	Air
Net Weight	5 3/4 oz.

INSTALLATION

The base of the UNITED 371-B 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 371-B 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 5.0 volts. **Caution — The filament winding is at high potential.**

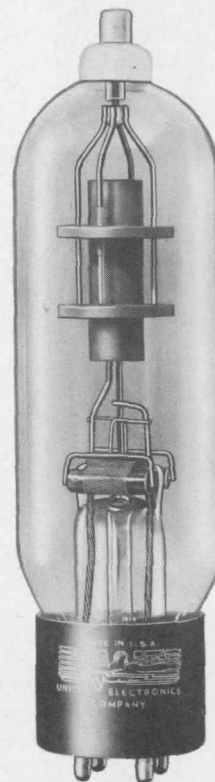
Connection to the anode terminal cap should be made by means of spring clips attached to flexible leads which must not touch the glass bulb. The unused base pins and the base shell of the 371-B should be connected to one filament terminal in the socket. If vibration will be encountered in the applications, 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 371-B 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 371-B 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.



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.

