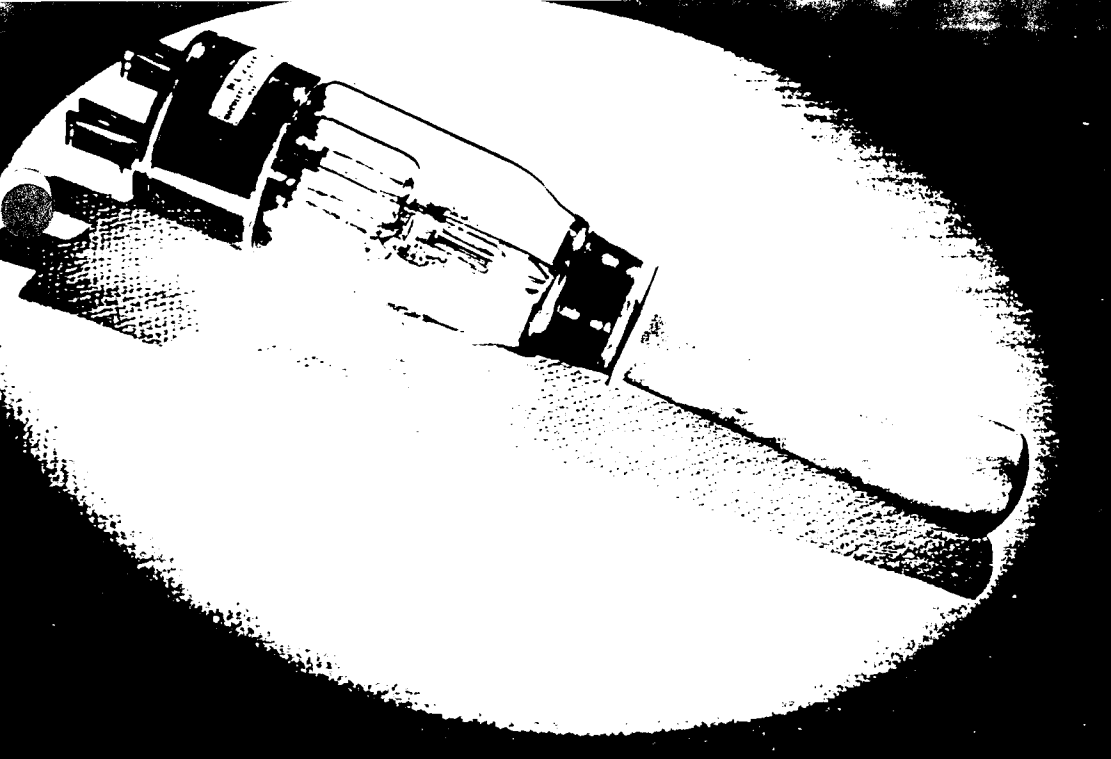




ML-222A

DESCRIPTION AND RATINGS



DESCRIPTION

The ML-222A is a high-vacuum, water-cooled rectifier tube having maximum ratings of 25 PKV inverse voltage and 5 amperes peak anode current. It is designed for use as a half-wave rectifier in power supplies for radio-transmitting and radio-communication service. The cathode is a pure-tungsten filament.

The ML-222A embodies all the techniques and skills that

have been inherently a part of Machlett Laboratories, Inc., since 1897. All parts are thoroughly processed by special Machlett techniques, which prevent contamination and assure complete and permanent outgassing. The tube is exhausted by a straight-line, high-voltage process assuring the same high standards as characterize the Machlett line of high-voltage x-ray rectifiers.

GENERAL CHARACTERISTICS

Electrical

Filament Voltage	21.5 volts
Filament Current, approximate	41.0 amperes
Tube Voltage Drop, approximate (I_b —5.0 amperes)	2000 volts

Mechanical

Mounting Position	Vertical, anode down
Type of Cooling	Water
Water Flow on Anode, minimum	1 gpm
Maximum Outgoing Water Temperature	75 °C

MAXIMUM RATINGS

Peak Inverse Anode Voltage	25000 volts
Peak Anode Current	5.0 amperes
Load Current (Average D-C)	
Circuit Application	Unfiltered
Single-phase, double half-wave	3.0 amperes
Single-phase, double half-wave, 4 tube series circuit	3.0 amperes
Three-phase, 6-tube, series-Y circuit	5.0 amperes
Three-phase, double-Y interconnected	8.5 amperes

WARNING: Operation of this tube may produce soft x-rays, which constitute a health hazard. Adequate rayproof shielding must therefore be provided in the equipment.

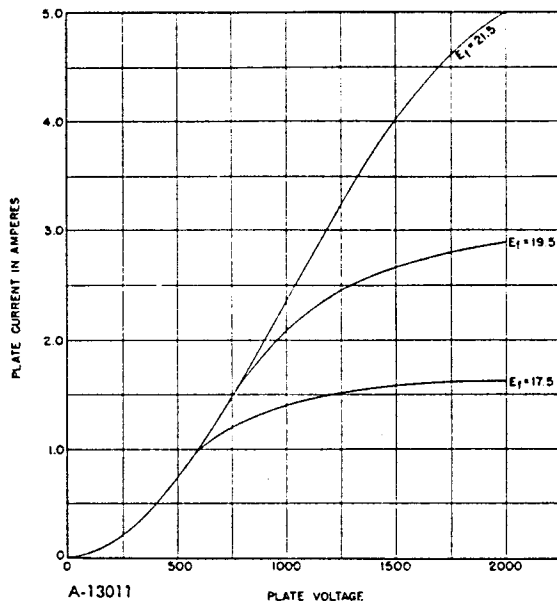
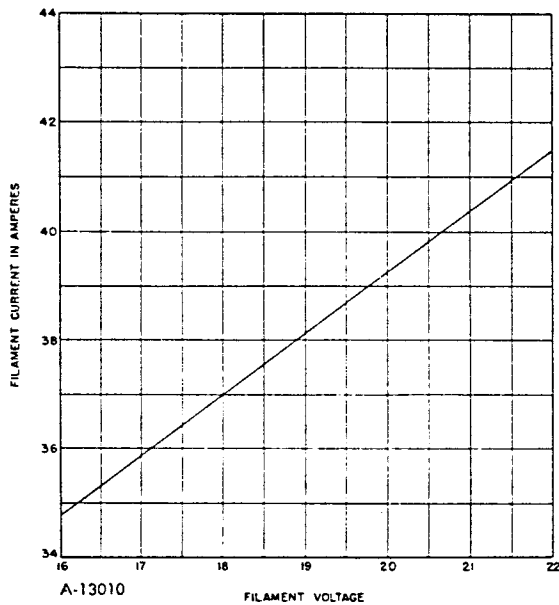
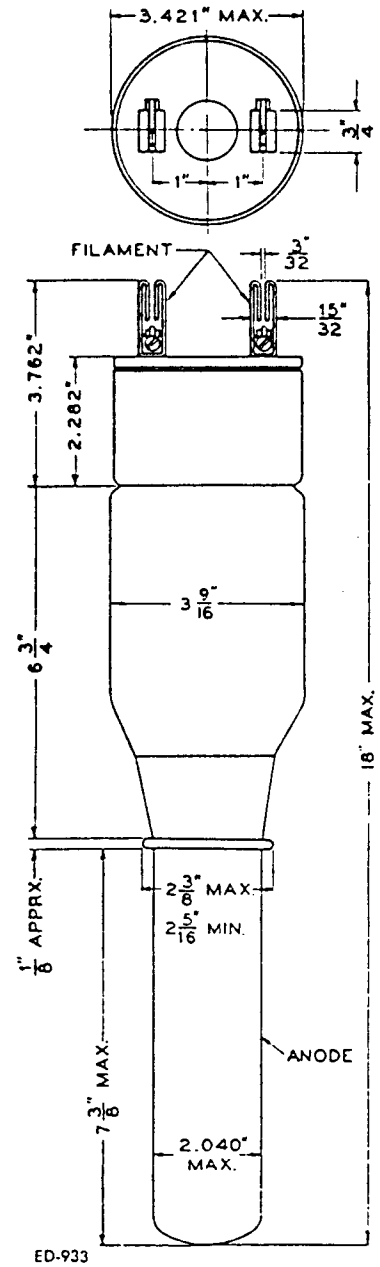


PLATE CURRENT CHARACTERISTICS



FILAMENT CHARACTERISTICS



Dimensions—ML-222A

THE MACHLETT LABORATORIES, INC.

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