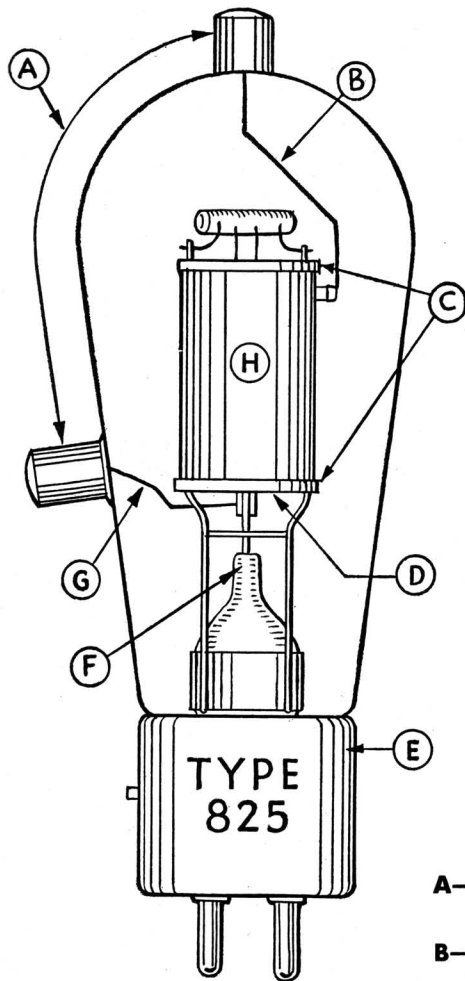


# Sylvania

REGISTERED U. S. PAT. OFF.

DEVELOPS  
A REAL

## ULTRA SHORT WAVE TUBE!



UNUSUALLY low inter-element capacity, and low inductive widely-spaced plate and grid connections . . . these two features make this new three element tube the most efficient short wave oscillator and amplifier yet produced!

This new type 825 tube is highly suited to all short wave work . . . and outstandingly superior for frequencies between 20-100 megacycles!

Seasoned research experience in the many phases of radio engineering and thorough study of high frequency phenomena by HYGRADE SYLVANIA engineers is manifested by this latest product.

### AVERAGE CHARACTERISTICS

|  |               |
|--|---------------|
| Filament Voltage.....                                  | 7.5           |
| Filament Current.....                                  | 3.25 Amp.     |
| Average Characteristics at: Ep, 1000 Eg, 70 Ef, 7.5 DC |               |
| Plate Current.....                                     | .040 Amp.     |
| Plate Resistance.....                                  | 10,000 Ohms   |
| Voltage Amplification Factor.....                      | 10            |
| Mutual Conductance.....                                | 1000 uMhos    |
| Maximum Plate Voltage:                                 |               |
| Modulated DC.....                                      | 750           |
| Unmodulated DC.....                                    | 1000          |
| Maximum Plate Dissipation.....                         | 40 watts      |
| Normal R. F. Output.....                               | 40 watts      |
| Interelectrode Capacitances                            |               |
| Grid to Plate.....                                     | 3 uu Fd.      |
| Grid to Filament.....                                  | 2 uu Fd.      |
| Plate to Filament.....                                 | 1 uu Fd.      |
| Max. Overall Dimensions                                |               |
| Height.....  | 6 1/4 inches  |
| Diameter.....  | 2 7/16 inches |
| Bulb.....  | S-19          |
| Base, Medium 4-pin Ceramic                             |               |

PRICE \$12.50

- A—Wide separation of input and output leads for lowest possible capacity.
- B—Plate lead. Maximum insulation.
- C—"Floating Anode" held only by low-loss ceramic spacers.
- D—Thoriated tungsten carbide filament, specially designed

and processed for ultra-high frequencies.

- E—Low-loss ceramic base
- F—No mechanical strain on press
- G—Grid lead. Maximum insulation.
- H—Graphite anode



Write Amateur Section H

HYGRADE SYLVANIA CORPORATION

Hygrade Lamps

ELECTRONICS DEPARTMENT  
CLIFTON, NEW JERSEY

Sylvania Tubes

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ST. MARYS, PA.

CLIFTON, N. J.