

# RMA Release # 289

TYPE # 6AH5G

RESERVATION # \_\_\_\_\_ DATE \_\_\_\_\_ REGISTRATION # \_\_\_\_\_ DATE \_\_\_\_\_

SPONSOR: Philco Radio and Television Corporation

TYPE CLASSIFICATION: Beam Power Amplifier

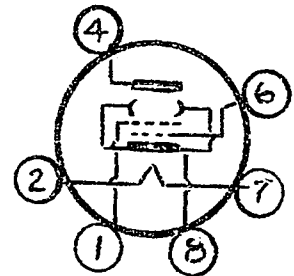
## PHYSICAL SPECIFICATIONS:

TYPE CATHODE: Unipotential

### PIN CONNECTIONS:

- Pin 1 - Screen Grid
- " 2 - Heater
- " 4 - Plate
- " 6 - Control Grid
- " 7 - Heater
- 2 8 - Cathode and Beam Plates

(Pins #3 and 5 removed)



6AP

BASE-BOTTOM VIEW

BASING DESIGNATION: 6AP

TYPE OF BASE: Medium Octal 6-pin (special)  
 TYPE OF BULB: ST-16  
 MAX. DIAMETER: 2-1/16"  
 MAX. OVERALL LENGTH: 5-5/16"  
 MAX. SEATED HEIGHT: 4-3/4"  
 MOUNTING POSITION: Any

### RATINGS:

|                         |            |
|-------------------------|------------|
| Heater Voltage AC or DC | 6.3 volts  |
| Heater Current          | .9 amp.    |
| Max. Plate Voltage DC   | 350 volts  |
| Max. Screen Voltage DC  | 250 volts  |
| Max. Plate Dissipation  | 18.5 watts |
| Max. Peak Plate Voltage | volts      |
| Max. Screen Dissipation | 2.7 watts  |

### TYPICAL OPERATION:

|                      | BEAM TETRODE<br>CLASS A <sub>1</sub> | TRIODE CLASS A <sub>1</sub><br>SCREEN TO PLATE |
|----------------------|--------------------------------------|------------------------------------------------|
| Heater Voltage       | 6.3                                  | 6.3 volts                                      |
| Plate Voltage        | 350                                  | 250 volts                                      |
| Screen Voltage       | 250                                  | - volts                                        |
| Grid Voltage         | -18                                  | -20 volts                                      |
| Peak AF Signal       | 18                                   | 20 volts                                       |
| Transconductance     | 5,200                                | 4,700 umhos                                    |
| Amplification Factor | -                                    | 8.0                                            |
| Plate Resistance     | 33,000                               | 1,700 ohms                                     |

TYPICAL OPERATION - Cont.

BEAM TETRODE  
CLASS A1

TRIODE CLASS A1  
SCREEN TO PLATE

|                            |       |       |       |
|----------------------------|-------|-------|-------|
| Zero Signal Plate Current  | 54    | 40    | ma.   |
| Zero Signal Screen Current | 2.5   | -     | ma.   |
| Max. Signal Plate Current  | 6.6   | 44    | ma.   |
| Max. Signal Screen Current | 7.0   | -     | ma.   |
| Load Resistance            | 4,200 | 5,000 | ohms  |
| Power Output               | 10.8  | 1.4   | watts |
| Total Harmonic Distortion  | 15    | 5     | %     |

COMMENTS:

Electrical characteristics are identical with Type 6L6G. The Stem and basing of Type 6AH5G have been arranged to obtain a high breakdown-voltage between plate and other elements for use in television circuits.