

RMA Release # 289

TYPE # 6AH5G

RESERVATION # _____ DATE _____ REGISTRATION # _____ DATE _____

SPONSOR: Philco Radio and Television Corporation

TYPE CLASSIFICATION: Beam Power Amplifier

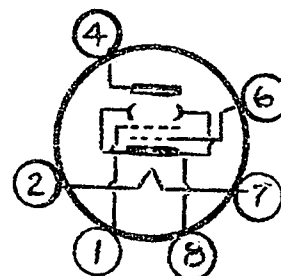
PHYSICAL SPECIFICATIONS:

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:

	<u>BEAM TETRODE</u> <u>CLASS A₁</u>	<u>TRIODE CLASS A₁</u> <u>SCREEN TO PLATE</u>
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.