

RADIO MANUFACTURERS ASSOCIATION



SUITE 701-4 AMERICAN BUILDING
1317 F STREET, N. W.
WASHINGTON, D. C.

RMA Release # 147

November 10, 1938

On application of the

Standard Telephone and Cables Co.
London, England

the type of vacuum tube defined by the ratings and characteristics given below has been registered under the tube type designation,

6P8G
Triode Hexode
(For A.C. Receivers)

The design of this tube incorporates in a single envelope a hexode unit and a triode unit with the latter located at the bottom end of a common cathode.

Heater Voltage (AC) 6.3 volts.
" Current 0.8 amperes.

Direct Interelectrode Capacitances (Approx.)

Hexode Control Grid to Hexode Plate	0.04 mmfd.
Triode Grid to Hexode Plate	0.03 "
Triode Grid to Triode Plate	3.0 "
Hexode Control Grid to all other electrodes	6.5 "
Hexode Control Grid to Triode Grid	0.25 "
Hexode Plate to all other electrodes	20.0 "
Triode Plate to all other electrodes	8.0 "

Bulb - S.T.14.
Base - Medium Shell Octal 8-pin.

OPERATING CONDITIONS AND CHARACTERISTICS (CONVERTER SERVICE)

Hexode Plate Voltage	250 volts (max.)
Hexode Screen Voltage	80 " (")
Hexode Control Grid Voltage	-2 to -30 volts
Triode Plate Voltage	150 volts (max.)
Typical Operation:	
Heater Voltage	6.3 volts
Hexode Plate Voltage	250 "
Hexode Screen Voltage	75 "
Hexode Control Grid Voltage	-2.0 "
Triode Plate Voltage	100 "
Triode Grid Resistor	50,000 ohms.
Hexode Plate Resistance (approx.)	0.75 megohms.
Conversion Transconductance	650 micromhos.
Hexode Control Grid Bias (approx.) for Conversion Transconductance = 2 micromhos	-30 volts.
Hexode Plate Current	1.5 mA.
Hexode Screen Current	1.4 mA.
Triode Plate Current	2.2 mA.
Oscillator Grid Voltage Peak Swing	12 volts peak.

PIN CONNECTIONS

Basing Designation 8-0

Pin 1. N.C.	Pin 5. Triode & Injector Grids
Pin 2. Heater	Pin 6. Triode Plate
Pin 3. Hexode Plate	Pin 7. Heater
Pin 4. Screen	Pin 8. Cathode

CAP.

Hexode Control Grid