**5599**

**THYRATRON**

**MERCURY-VAPOR TRIODE**

**DATA**

**Electrical:**

Heater, for Unipotential Cathode:
- Voltage: 5.0 volts
- Current: 4.5 amp

Cathode:
- Minimum Heating Time, prior to tube conduction: 5 minutes

Direct Interelectrode Capacitances (Approx.):
- Grid to Anode: 2.5 μf
- Grid to Cathode: 10 μf
- Ionization Time (Approx.): 10 μsec
- Deionization Time (Approx.): 1000 μsec
- Anode Voltage Drop (Approx.): 16 volts
- Grid-No.1 Control Ratio (Approx.) with grid-No.1 resistor (megohms) = 0: 220

**Mechanical:**

Mounting Position: Vertical, Base Down

Overall Length: 7' ± 1/4'

Seated Length: 6-3/8' ± 1/4'

Maximum Diameter: 3'

Bulb: ST-23

Cap.: Medium

Base: Medium-Shank Small 4-Pin, Bayonet

Basing Designation for BOTTOM VIEW: 4BL

**Pin 1—Heater**

**Pin 2—Cathode:**
- Circuit
- Returns

**Pin 3—Grid**

**Pin 4—Heater, Cathode**

**Cap—Anode**

**Maximum Ratings, Absolute Values:**

**PEAK ANODE VOLTAGE:**
- Forward: 1000 max. volts
- Inverse: 1000 max. volts

**GRID VOLTAGE:**
- Before Conduction: -500 max. volts
- During Conduction: -10 max. volts

**CATHODE CURRENT:**
- Peak: 15 max. amp
- Average**: 2.5 max. amp
- Fault, for 0.1 sec. maximum: 200 max. amp

**GRID CURRENT:**
- Average**: +0.25 max. amp

**COND.—MERCURY TEMPERATURE RANGE**
- +40 to +80 °C

**OPERATING FREQUENCY:**
- 150 max. cps

**** Averaged over any interval of 15 sec. max.

**√** Recommended operating temperature is 40°C.

MARCH 1, 1951

TUBE DEPARTMENT

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY
5559

THYRATRON

MEDIUM CAP

ST 23 BULB

ZONE WHERE
CONDENSED-MERCURY
TEMPERATURE SHOULD
BE MEASURED

MEDIUM-SHELL
SMALL 4-PIN
BAYONET BASE

92CS-6743RI

MARCH 1, 1951
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RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY