

SYLVANIA ELECTRIC

RMA Registration Data

TYPE 5930

TRIODE

The Type 5930 is a triode power amplifier designed to operate in applications where severe conditions of vibration and shock are encountered.

MECHANICAL DATA

GENERAL

Cathode	coated filament
Bulb.....	T-12
Base.....	(see drawing, Page 2)
	Large 4-Pin, low loss phenolic
Outline	(see drawing, Page 2)
Maximum Diameter	1.70 inches
Maximum Overall Length	4 1/2 inches
Maximum Seated Height	3 7/8 inches
Mounting Position:	
Vertical	base up or down
Horizontal	pins 1 and 4 in vertical plane
Basing	4D
Pin Connections:	
Pin 1 .. filament (+)	Pin 3 .. grid
Pin 2 .. plate	Pin 4 .. filament (-)

RATINGS

Maximum Impact Acceleration ⁽¹⁾	450 g
Maximum Vibrational Acceleration for Extended Periods ⁽²⁾	2.5 g

ELECTRICAL DATA

GENERAL

Filament Voltage (ac or dc)	2.5 volts
Filament Current	2.5 amps

RATINGS -- Absolute System

Maximum Plate Voltage (dc)	360 volts
Maximum Plate Dissipation	15 watts
Maximum Grid-Circuit Resistance (fixed bias)	50,000 ohms

CHARACTERISTICS

Conditions:	
Filament Voltage (ac or dc)	2.5 volts
Plate Voltage ^(dc)	250 volts
Grid Voltage ⁽³⁾ (dc)	-45 volts
Amplification Factor	4.2
Plate Resistance	800 ohms
Transconductance	5,250 micromhos
Plate Current (dc)	60 milliamps

(See Page 2 for all notes.)

TYPE 5930

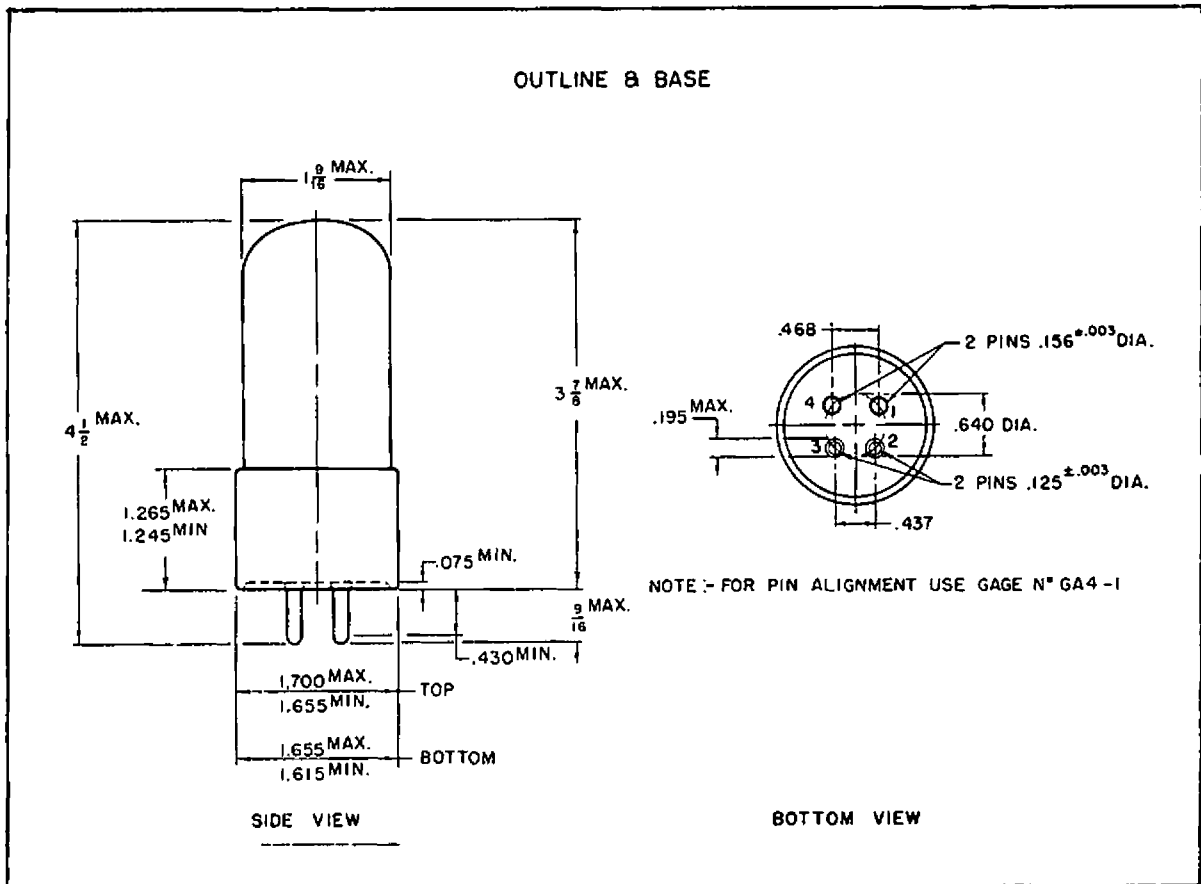
TYPICAL OPERATION

Class A₁ Amplifier

Filament Voltage (ac or dc)	2.5	volts
Plate Voltage (dc)	250	volts
Grid Voltage ⁽³⁾ (dc)	-45	volts
Plate Load Resistance	2,500	ohms
Power Output	3.5	watts
Distortion (2nd harmonic)	5.0	per cent

Push-Pull Class-AB₁ Amplifier (two tubes)

Filament Voltage (dc)	2.5	volts
Plate Voltage (dc)	300	volts
Grid Voltage ⁽³⁾ (dc)	-62	volts
Zero-Signal Plate Current (each tube) (dc)	40	milliamps
Effective Load Resistance (plate to plate)	3,000	ohms
Power Output	15	watts
Total Harmonic Distortion	2.5	per cent



- (1) Forces in any direction as applied by the Navy Type, High Impact Shock Machine for Electronic Devices, or its equivalent.
- (2) Vibrational forces in any direction at 25 cycles per second for a period not exceeding 96 hours.
- (3) Grid voltage measured from mid-point of ac operated filament.