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

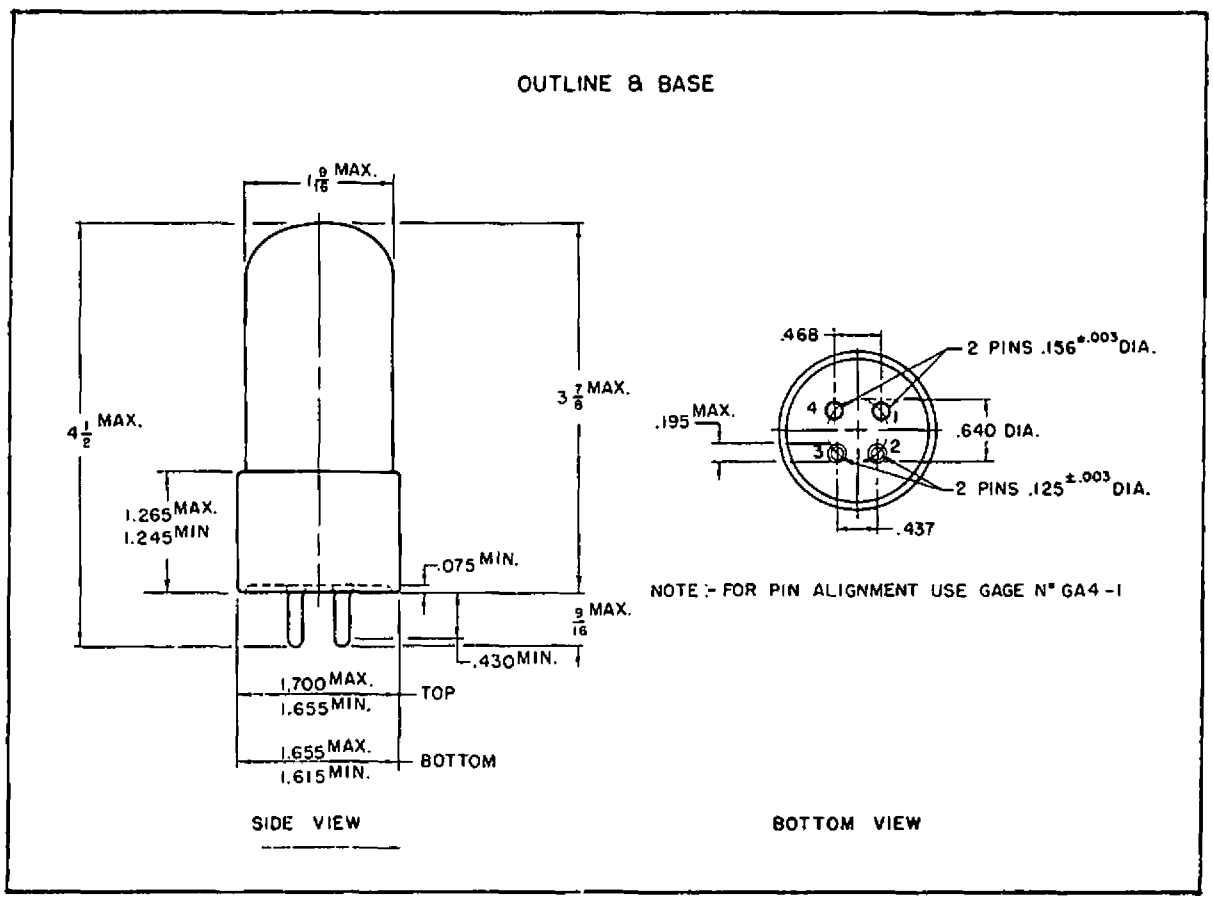
TYPICAL OPERATION

Class A_1 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-AB_1 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.