

**MECHANICAL DATA**

Bulb . . . . .	T-5½
Base . . . . .	Miniature Button 7-Pin
Outline . . . . .	5-2
Basing . . . . .	7DC
Cathode . . . . .	Coated Filament
Mounting Position . . . . .	Any

**ELECTRICAL DATA**

**FILAMENT CHARACTERISTICS**

Filament Voltage DC . . . . .	1.4 Volts
Filament Current . . . . .	50 Ma

**DIRECT INTERELECTRODE CAPACITANCES**

	Shielded <sup>1</sup>	Unshielded	
RF Input:			
g4 to (f+g1+g2+g3+g4+g5+p)	7.5	7.5 μμf	
Grid No. 4 to Plate . . . . .	0.36	0.46 μμf	Max.
Mixer Output:			
p to (f+g1+g2+g3+g4+g5)	12.0	7.0 μμf	
Oscillator Input:			
g1 to (f+g3+g4+g5+p)	2.2	2.2 μμf	
Oscillator Output:			
g2 to (f+g3+g4+g5+p)	2.6	2.6 μμf	
Coupling:			
Grid No. 1 to Grid No. 4			
(Osc. Inp. to RF Inp.) . . . . .	0.19	0.19 μμf	
Grid No. 2 to Grid No. 4			
(Osc. Out. to RF Inp.) . . . . .	0.24	0.24 μμf	
Grid No. 1 to Plate			
(Osc. Inp. to Mix. Out.) . . . . .	0.10	0.15 μμf	Max.

**RATINGS (Design Center Values)**

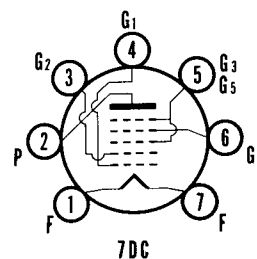
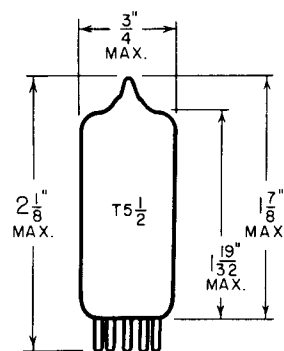
Plate Voltage . . . . .	110 Volts	Max.
Grid No. 2 Voltage (Osc. Plate) . . . . .	110 Volts	Max.
Grid No. 3 and Grid No. 5 Supply Voltage . . . . .	110 Volts	Max.
Grid No. 3 and Grid No. 5 Voltage . . . . .	65 Volts	Max.
Total Cathode Current . . . . .	4.0 Ma	Max.
Grid No. 1 Circuit Resistance . . . . .	1.0 Megohm	Max.

**CHARACTERISTICS AND TYPICAL OPERATION**

Plate Voltage . . . . .	90 Volts
Grid No. 2 Voltage (Osc. Plate) . . . . .	90 Volts
Grid No. 3 and Grid No. 5 Voltage <sup>2</sup> . . . . .	45 Volts
Grid No. 4 Voltage (Mixer Grid) . . . . .	0 Volts
Plate Current . . . . .	0.5 Ma
Grid No. 2 Current (Osc. Plate) . . . . .	1.2 Ma
Grid No. 3 and Grid No. 5 Current . . . . .	0.6 Ma
Grid No. 1 Resistor (Osc. Grid) . . . . .	0.2 Megohm
Grid No. 1 Current (Osc. Grid) . . . . .	0.035 Ma
Conversion Transconductance . . . . .	300 μmhos
Plate Resistance (approx.) . . . . .	0.65 Megohm
Cathode Current . . . . .	2.35 Ma
Ec <sub>4</sub> Volts for Gc = 10 μmhos (approx.) . . . . .	-3.5 Volts
Ec <sub>4</sub> Volts for Gc = 100 μmhos (approx.) . . . . .	-1.3 Volts

**QUICK REFERENCE DATA**

The Sylvania Type 1L6 is a miniature type pentagrid converter designed for use in low drain battery operated receivers.



**SYLVANIA ELECTRIC PRODUCTS INC.**

**RADIO TUBE DIVISION  
EMPORIUM, PA.**

*Prepared and Released By The  
TECHNICAL PUBLICATIONS SECTION  
EMPORIUM, PENNSYLVANIA*

CHARACTERISTICS AND TYPICAL OPERATION (Cont'd.)

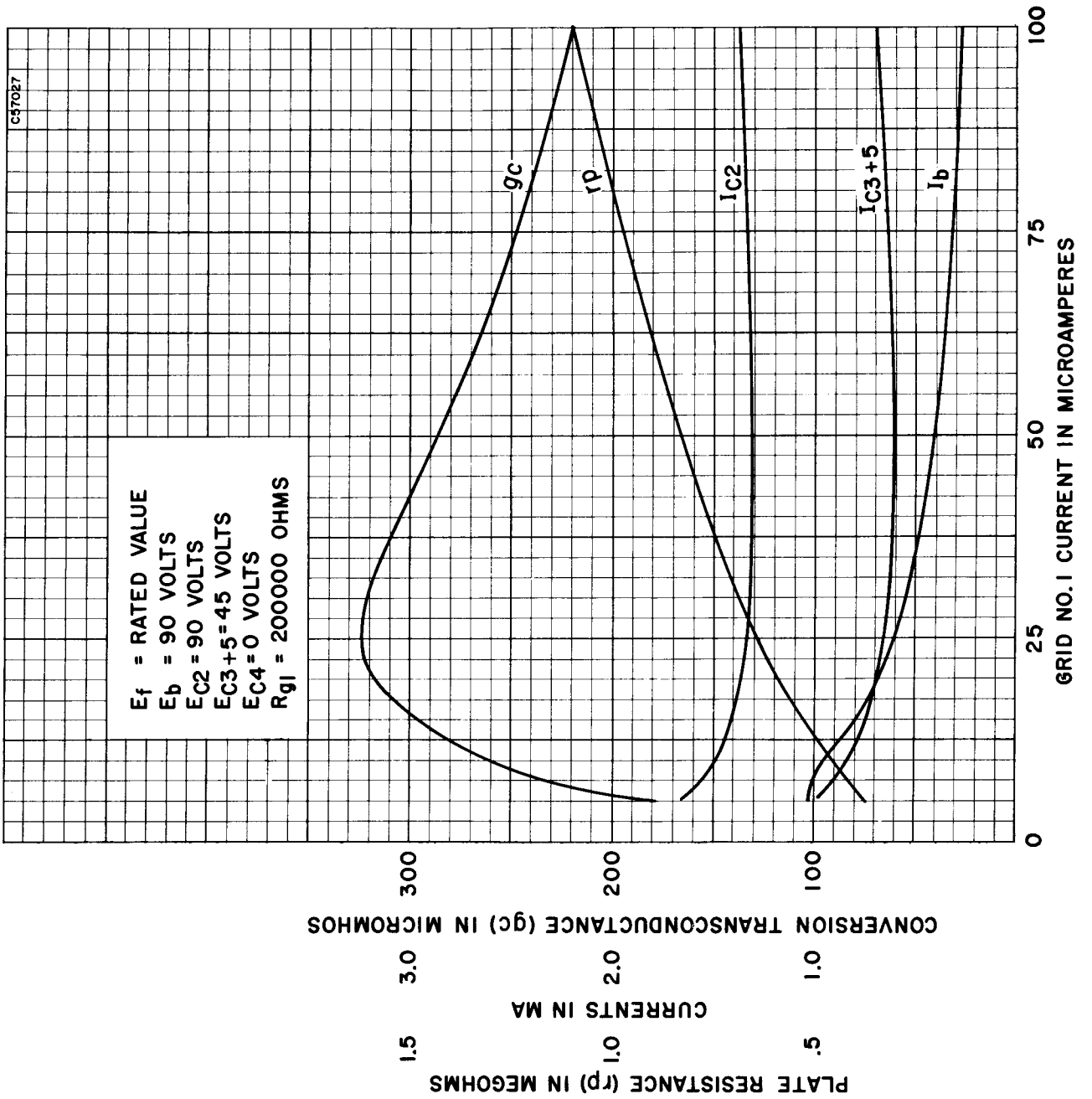
Oscillator Section Characteristics (Non-Oscillating)

Grid No. 2 Voltage (Osc. Plate) . . . . .	90 Volts
Plate Voltage . . . . .	90 Volts
Grid No. 3 and Grid No. 5 Voltage . . . . .	45 Volts
Grid No. 4 Voltage (Mixer Grid) . . . . .	0 Volts
Grid No. 1 Voltage (Osc. Grid) . . . . .	0 Volts
Transconductance (Osc. Section) . . . . .	550 $\mu$ mhos

NOTES:

1. *External shield No. 316 connected to Pin No. 1.*
2. *Obtained preferably by using a properly by-passed dropping resistor of from 45,000 to 75,000 ohms.*

AVERAGE CHARACTERISTICS



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