

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

	Shielded¹	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)

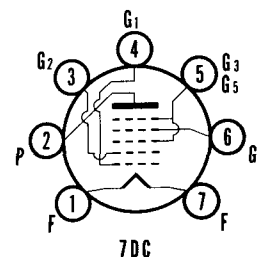
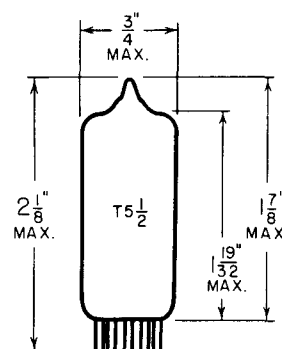
Plate Voltage	110 Volts	Max.
Grid No. 2 Voltage (Osc. Plate)	110 Volts	Max.
Grid No. 3 and Grid No. 5 Supply Voltage	110 Volts	Max.
Grid No. 3 and Grid No. 5 Voltage	65 Volts	Max.
Total Cathode Current	4.0 Ma	Max.
Grid No. 1 Circuit Resistance	1.0 Megohm	Max.

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage	90 Volts
Grid No. 2 Voltage (Osc. Plate)	90 Volts
Grid No. 3 and Grid No. 5 Voltage²	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
Ec₁ Volts for Gc = 10 μmhos (approx.)	-3.5 Volts
Ec₁ 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
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CHARACTERISTICS AND TYPICAL OPERATION (Cont'd.)

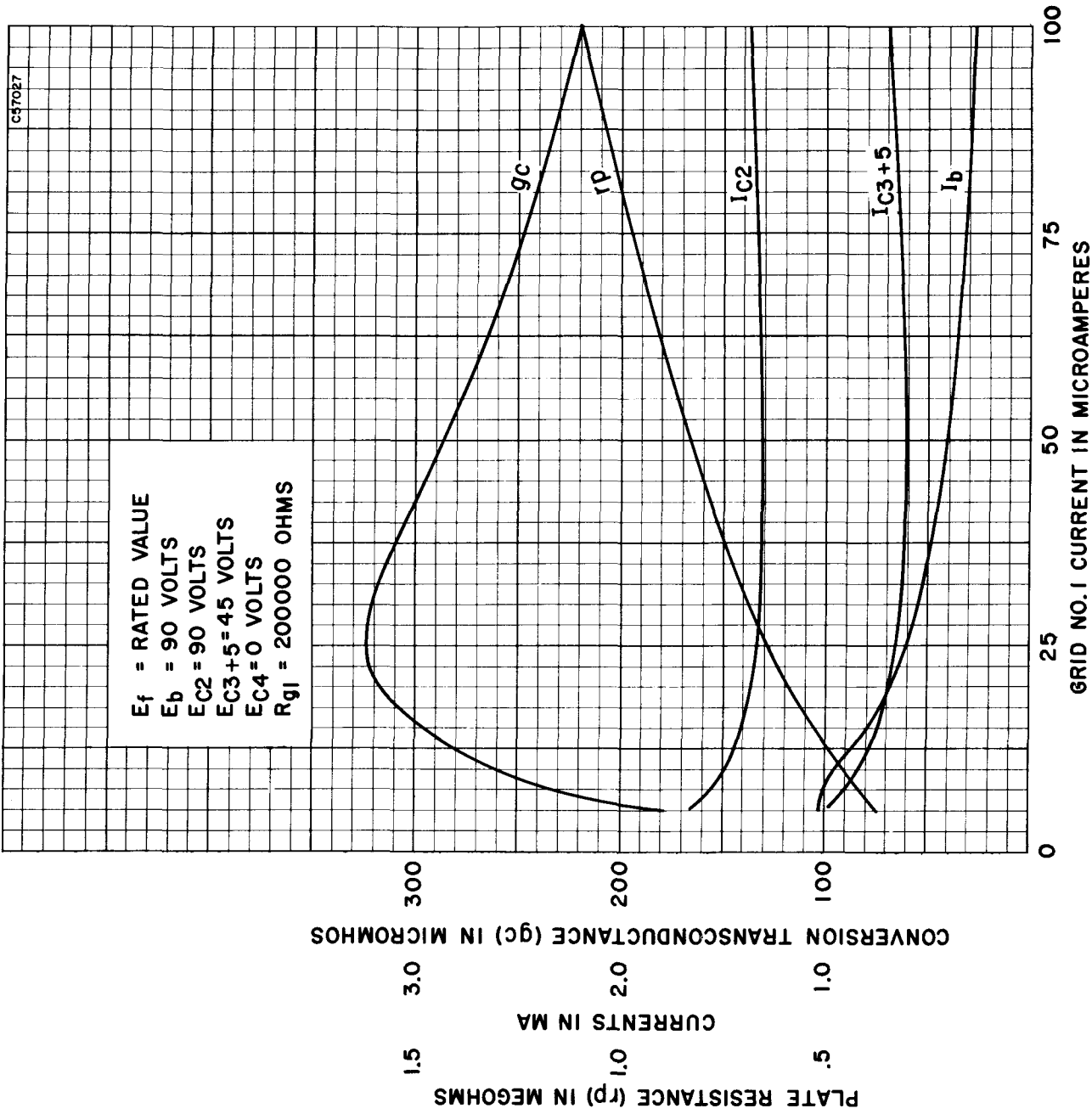
Oscillator Section Characteristics (Non-Oscillating)

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 μ 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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