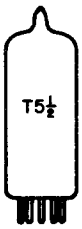
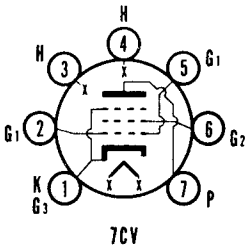


SYLVANIA TYPE 12CN5

SHARP CUTOFF PENTODE



MECHANICAL DATA

Bulb	T-5½
Base	E7-1, Miniature Button 7-Pin
Outline	5-3
Basing	7CV
Cathode	Coated Unipotential
Mounting Position	Any

12CN5 (Cont'd)

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage[1]	12.6 Volts
Heater Current	450 Ma
Heater-Cathode Voltage (Design Center Values)	
Heater Negative with Respect to Cathode	16 Volts Max.
Heater Positive with Respect to Cathode	16 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES

	Shielded	Unshielded
Grid No. 1 to Plate	0.2	0.25 μμf Max.

MAXIMUM RATINGS (Design Center Values)

Plate Voltage	16 Volts
Grid No. 2 Voltage	16 Volts
Positive Grid No. 1 Voltage	0 Volts
Grid No. 1 Circuit Resistance	2.2 Megohms

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage	12.6 Volts
Grid No. 2 Voltage	12.6 Volts
Grid No. 1 Voltage[2]	
Grid No. 1 Resistor	2.2 Megohms
Plate Current	4.5 Ma
Grid No. 2 Current	0.35 Ma
Transconductance	3800 μmhos
Plate Resistance (approx.)	40,000 Ohms

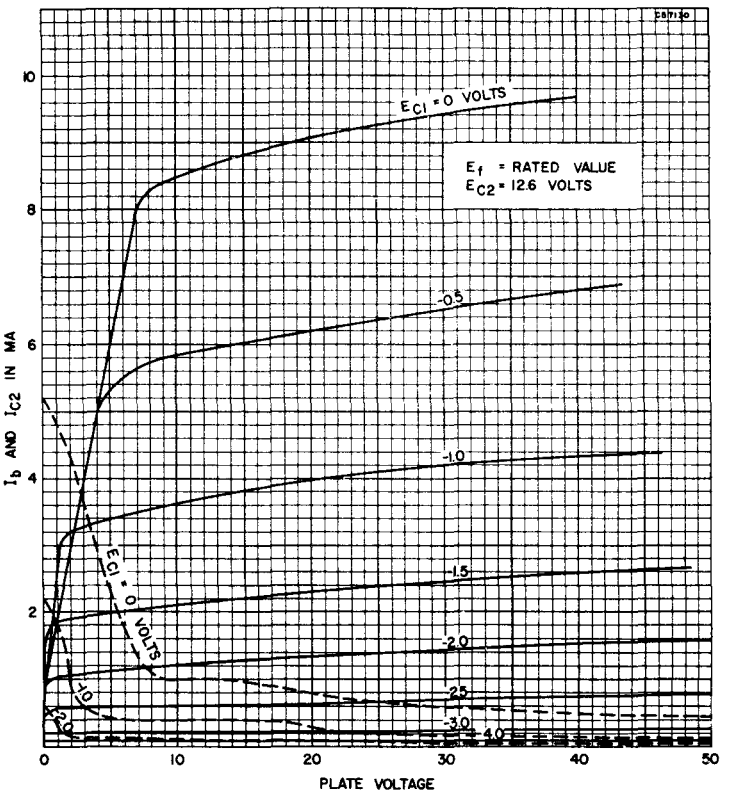
NOTES:

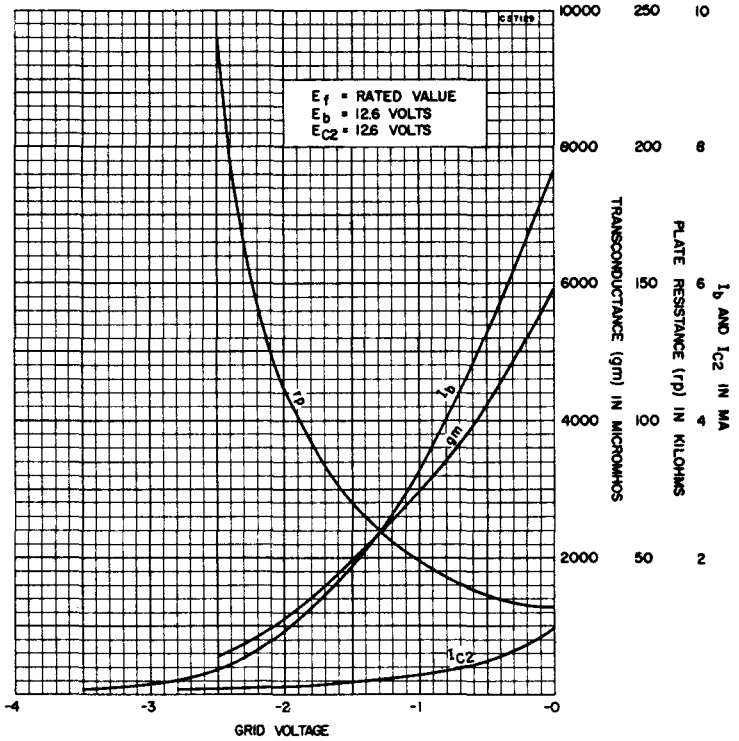
1. This tube is intended for use in automobile radios operated from a nominal 12-volt battery. Design of the tube is such that the heater will operate satisfactorily over the range 10.0 volts to 15.9 volts, and that the maximum ratings provide a safety factor for the wide voltage variation encountered with this type of supply.
2. Average contact potential bias developed across the specified grid resistor.

APPLICATION

The Sylvania Type 12CN5 is a miniature sharp-cutoff pentode intended for use as an I F amplifier in automobile radio receivers. It is designed primarily to operate where the heater, plate, and screen voltages are obtained directly from a 12-volt automotive storage battery.

AVERAGE PLATE CHARACTERISTICS



12CN5 (Cont'd)

AVERAGE TRANSFER CHARACTERISTICS