

Description and Rating

RADIO-FREQUENCY AMPLIFIER PENTODE

GENERAL DESCRIPTION

Principal Application: The 1LN5 is a sharp-cutoff pentode designed for use as a radio-frequency,

intermediate-frequency, or audio-frequency amplifier in battery-operated receivers.

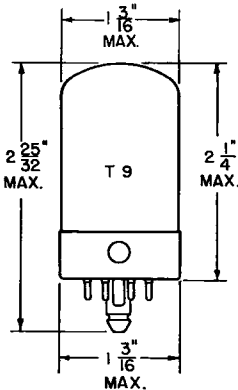
Cathode: Coated Filament
 Filament Voltage (D-C) 1.4 Volts
 Filament Current 0.05 Ampere
 Envelope: T-9, Glass
 Base: D8-I, Locking-In 8-Pin

Mounting Position: Any
 Direct Interelectrode Capacitances: #
 Grid 1 to Plate (Max) 0.007 $\mu\mu\text{f}$
 Input 3.0 $\mu\mu\text{f}$
 Output 8.0 $\mu\mu\text{f}$

PHYSICAL DIMENSIONS

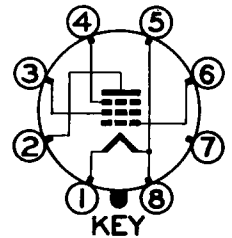
TERMINAL CONNECTIONS

BASING DIAGRAM



RTMA 9-30

- Pin 1 - Positive Filament
- Pin 2 - Plate
- Pin 3 - Grid Number 2 (Screen)
- Pin 4 - Grid Number 3 (Suppressor)
- Pin 5 - Negative Filament and Internal Shield
- Pin 6 - Grid Number 1
- Pin 7 - No Connection
- Pin 8 - Negative Filament and Internal Shield



RTMA 7A0
BOTTOM VIEW

MAXIMUM RATINGS

DESIGN CENTER VALUES:

Plate Voltage	110	Volts
Screen Voltage	110	Volts

CHARACTERISTICS AND TYPICAL OPERATION

CLASS A₁ AMPLIFIER

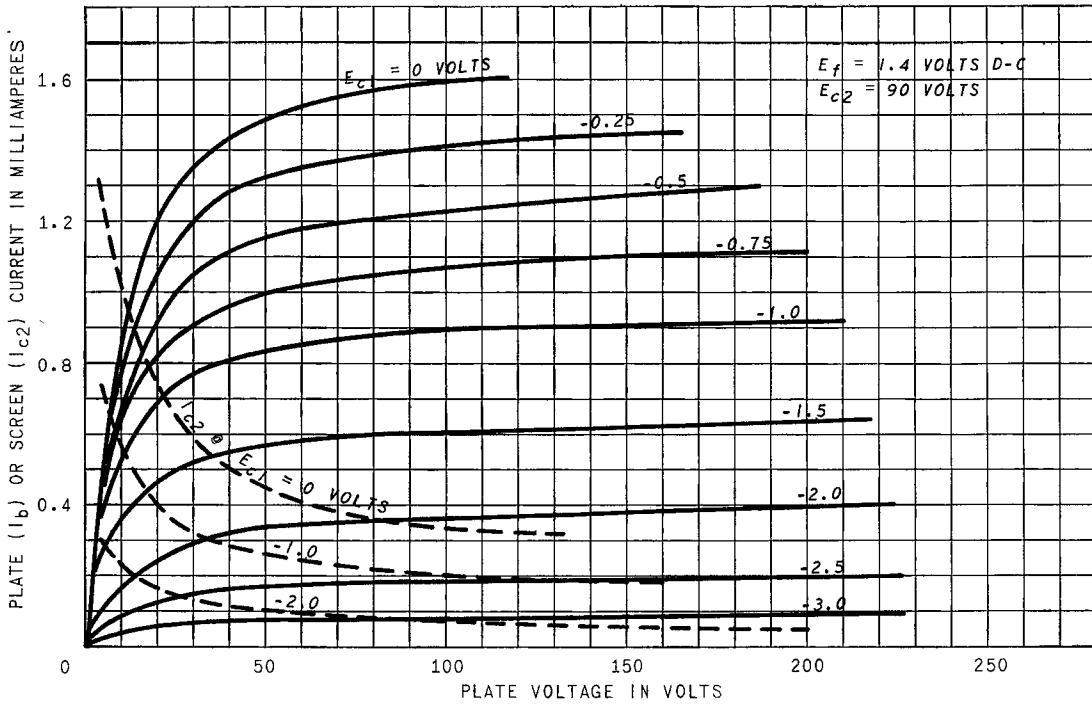
Plate Voltage	90	Volts
Suppressor Voltage *	0	Volts
Screen Voltage	90	Volts
Grid Number 1 Voltage **	0	Volts
Plate Resistance (Approx)	1.1	Megohms
Transconductance	800	Micromhos
Plate Current	1.6	Milliamperes
Screen Current	0.35	Milliamperes
Grid Number 1 Voltage (Approx) for G _m = 10 Micromhos	-4.5	Volts

With external shield #308 connected to negative filament

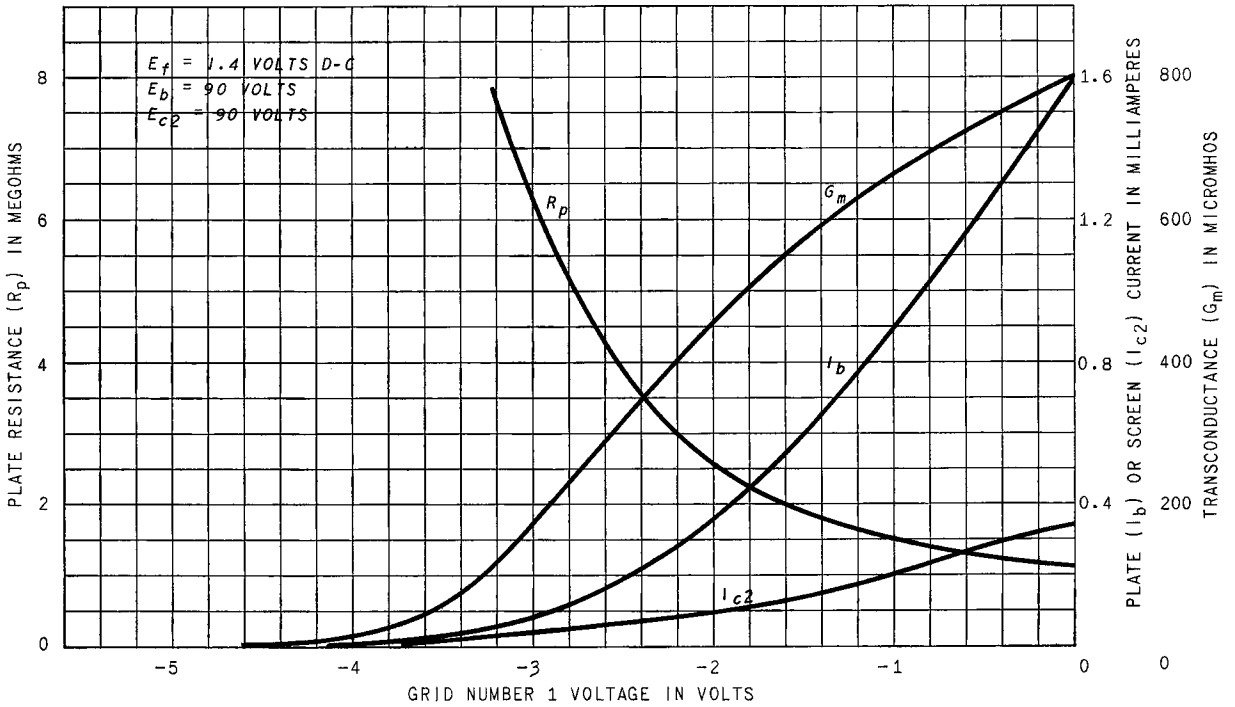
* Pin 4 connected to pin 8 at socket

** Pin 6 connected to pin 8. In normal operation, the grid return should be made to the AVC system or to the negative filament through a one megohm resistor suitably by-passed.

AVERAGE PLATE CHARACTERISTICS



AVERAGE CHARACTERISTICS



TUBE DEPARTMENT



Schenectady 5, N. Y.