

6SH7

Description and Rating

RADIO-FREQUENCY-AMPLIFIER PENTODE

GENERAL DESCRIPTION

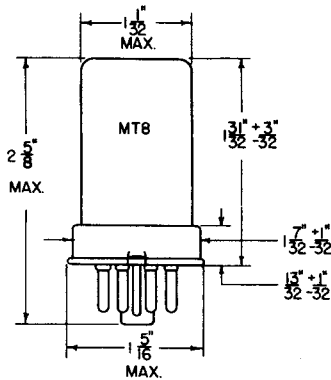
Principal Application: The type 6SH7 is a sharp cut-off amplifier pentode designed for use as a high-gain radio-frequency or intermediate-frequency

Cathode: Coated Unipotential
Heater Voltage (A-C or D-C) 6.3 Volts
Heater Current 0.3 Ampere
Envelope: MT-8 Metal Shell
Base: B8-21 Small Wafer Octal 8-Pin, Phenolic

amplifier. The 6SH7 is not recommended for use as a high-gain audio amplifier because undesirable hum may be encountered.

Mounting Position: Any
Direct Interelectrode Capacitances: *
Grid to Plate (Max) 0.003 $\mu\mu\text{f}$
Input 8.5 $\mu\mu\text{f}$
Output 7.0 $\mu\mu\text{f}$

PHYSICAL DIMENSIONS

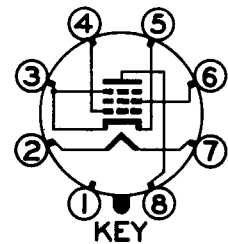


RMA 8-1

TERMINAL CONNECTIONS

- Pin 1 - Shell and Internal Shield
- Pin 2 - Heater
- Pin 3 - Cathode and Grid Number 3
- Pin 4 - Grid Number 1
- Pin 5 - Cathode
- Pin 6 - Grid Number 2 (Screen)
- Pin 7 - Heater
- Pin 8 - Plate

BASING DIAGRAM



RMA 8BK
BOTTOM VIEW

MAXIMUM RATINGS

	Design Center	Absolute	
Plate Voltage	300	330	Volts
Screen (Grid Number 2) Voltage	150	165	Volts
Screen Supply Voltage	300	330	Volts
Grid Bias Voltage	Never Positive		
Plate Dissipation	3.0	3.3	Watts
Screen Dissipation	0.70	0.77	Watts
D-C Heater-Cathode Voltage	90	100	Volts

CHARACTERISTICS AND TYPICAL OPERATION

CLASS A AMPLIFIER

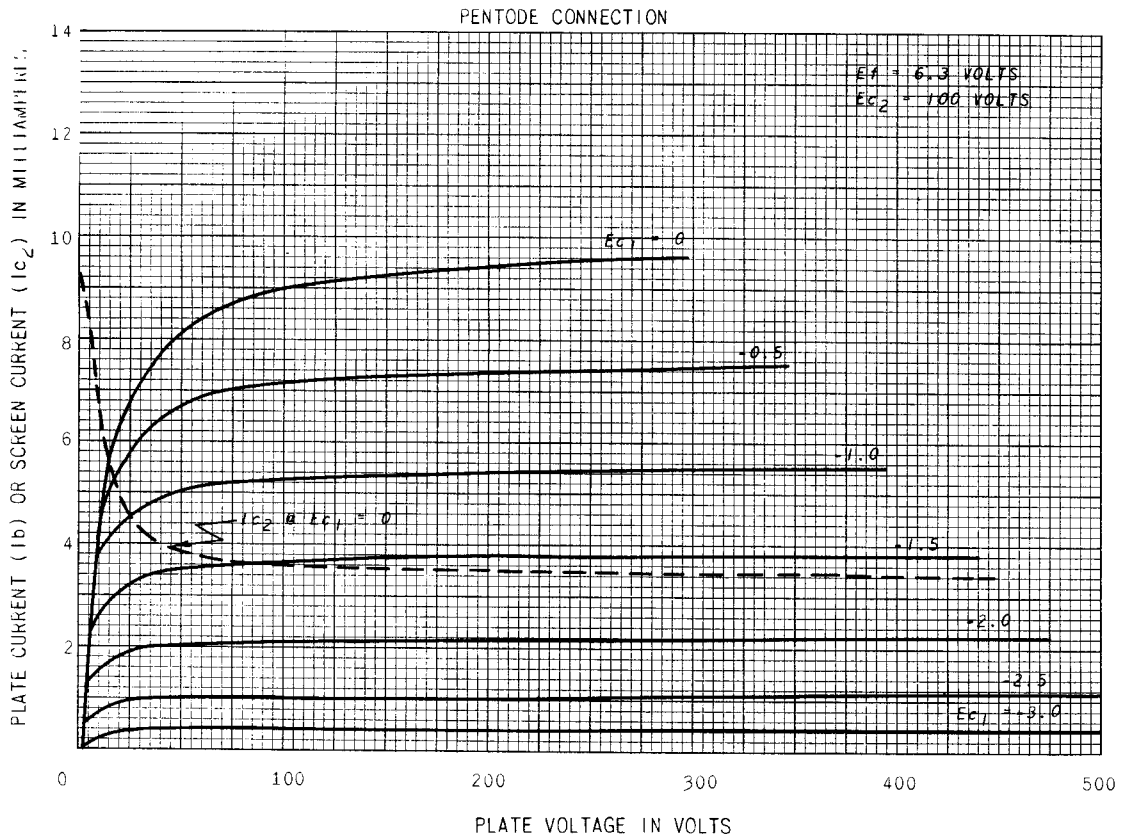
Heater Voltage	6.3	6.3	Volts
Plate Voltage	100	250	Volts
Screen Grid Voltage	100	150	Volts
Grid Bias Voltage	-1	-1	Volt
Plate Resistance (Approx)	0.35	0.9	Megohm
Transconductance	4000	4900	Micromhos
Grid Bias Voltage **.	-4	-5.5	Volts
Plate Current	5.3	10.8	Milliamperes
Screen Current	2.1	4.1	Milliamperes

(For notes see page 2)

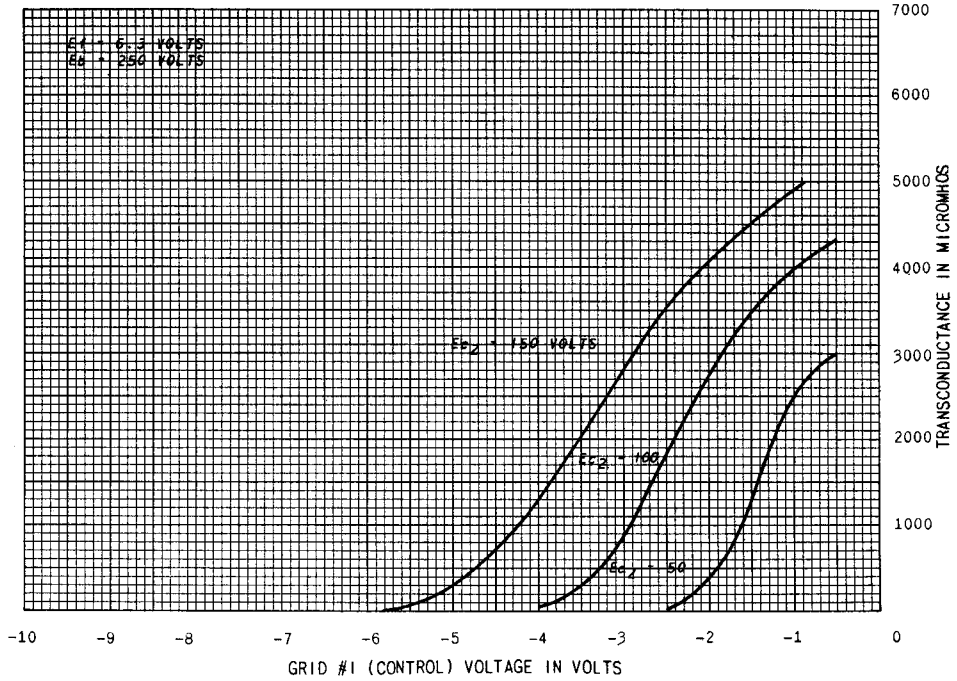
* Measured with shell and internal shield connected to cathode.

** Approximate values for plate current of 10 microamperes.

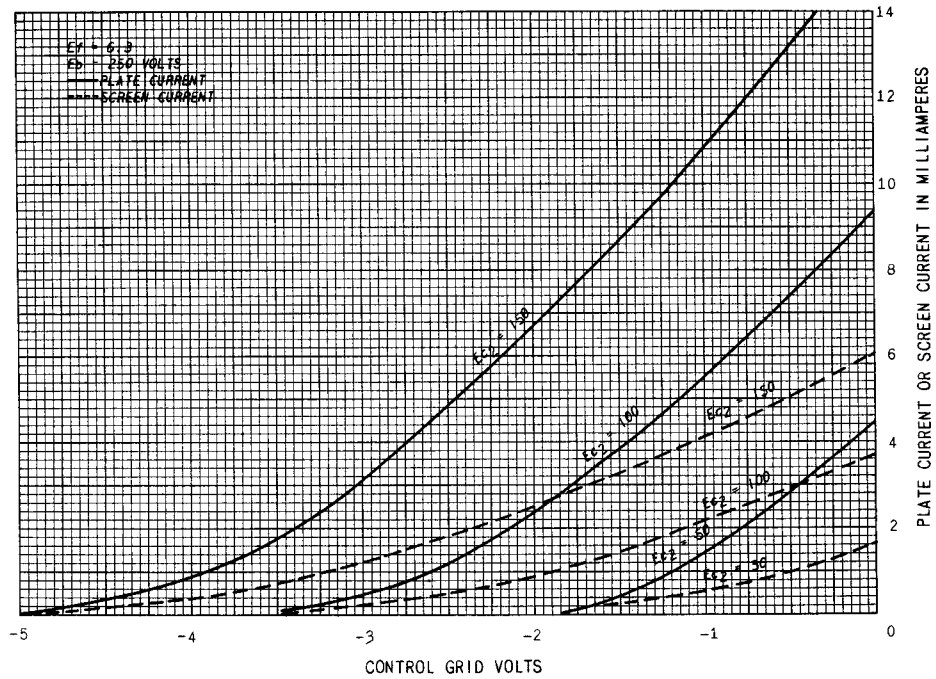
AVERAGE PLATE CHARACTERISTICS



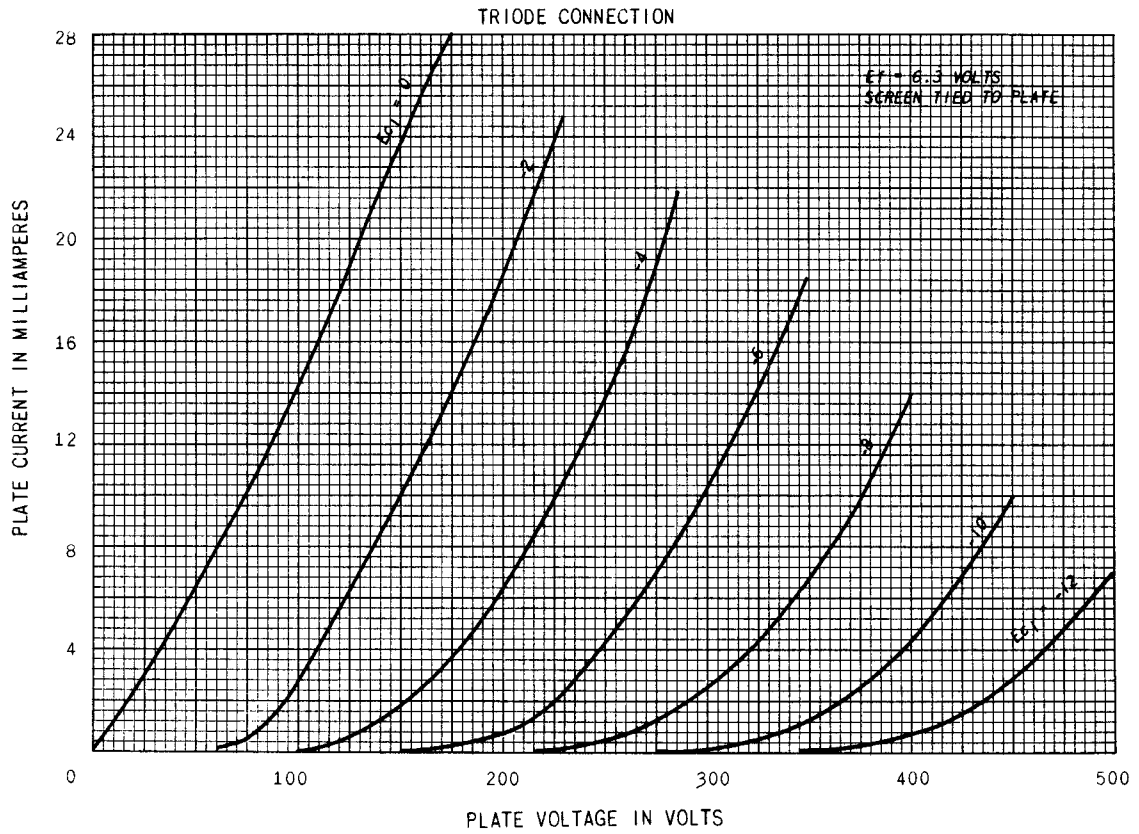
AVERAGE CHARACTERISTICS



AVERAGE CHARACTERISTICS



AVERAGE PLATE CHARACTERISTICS



Electronics Department



Schenectady, N. Y.