Electronic TUBE

6K7

Description and Rating

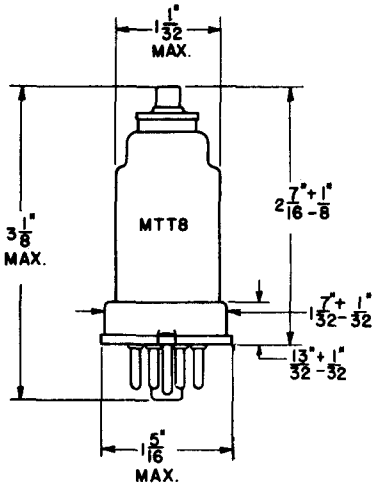
RADIO-FREQUENCY-AMPLIFIER PENTODE

GENERAL DESCRIPTION

Principal Application: The 6K7 is a heater-cathode type pentode amplifier tube with remote cut-off characteristics and is designed for use as a radio-frequency or intermediate-frequency amplifier in a-c or storage battery operated equipment. Except for capacitances the electrical ratings and characteristics of the 6K7 are identical with those of types 78, 6K7-G, and 6K7-GT.

Cathode	Coated Unipotential
Heater Voltage (A-C or D-C)	6.3 Volts
Heater Current	0.3 Ampere
Envelope	MTT8 Metal Shell
Base	B7-22 Small Wafer Octal 7-Pin Phenolic
Top Cap	C1-4 Skirted Miniature
Mounting Position	Any
Direct Interelectrode Capacitances: *	
Grid Number 1 to Plate (Max)	0.005 µµf
Input	7 µµf
Output	12 µµf

PHYSICAL DIMENSIONS

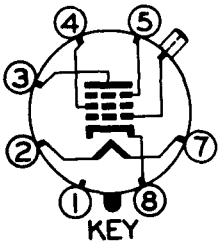


RMA 8-4

TERMINAL CONNECTIONS

Pin 1 - Shell
Pin 2 - Heater
Pin 3 - Plate
Pin 4 - Grid Number 2 (Screen)
Pin 5 - Grid Number 3 (Suppressor)
Pin 7 - Heater
Pin 8 - Cathode
Top Cap - Grid Number 1

BASING DIAGRAM



RMA 7R
BOTTOM VIEW

MAXIMUM RATINGS

	Design Center	Absolute	
Plate Voltage	300	330	Volts
Screen (Grid Number 2) Voltage	125	140	Volts
Screen Supply Voltage	300	330	Volts
Grid Bias Voltage	Never Positive		
Plate Dissipation	2.75	3.03	Watts
Screen Dissipation	0.35	0.39	Watt
D-C Heater-Cathode Voltage	90	100	Volts

** With metal shell connected to cathode.*

CHARACTERISTICS AND TYPICAL OPERATION

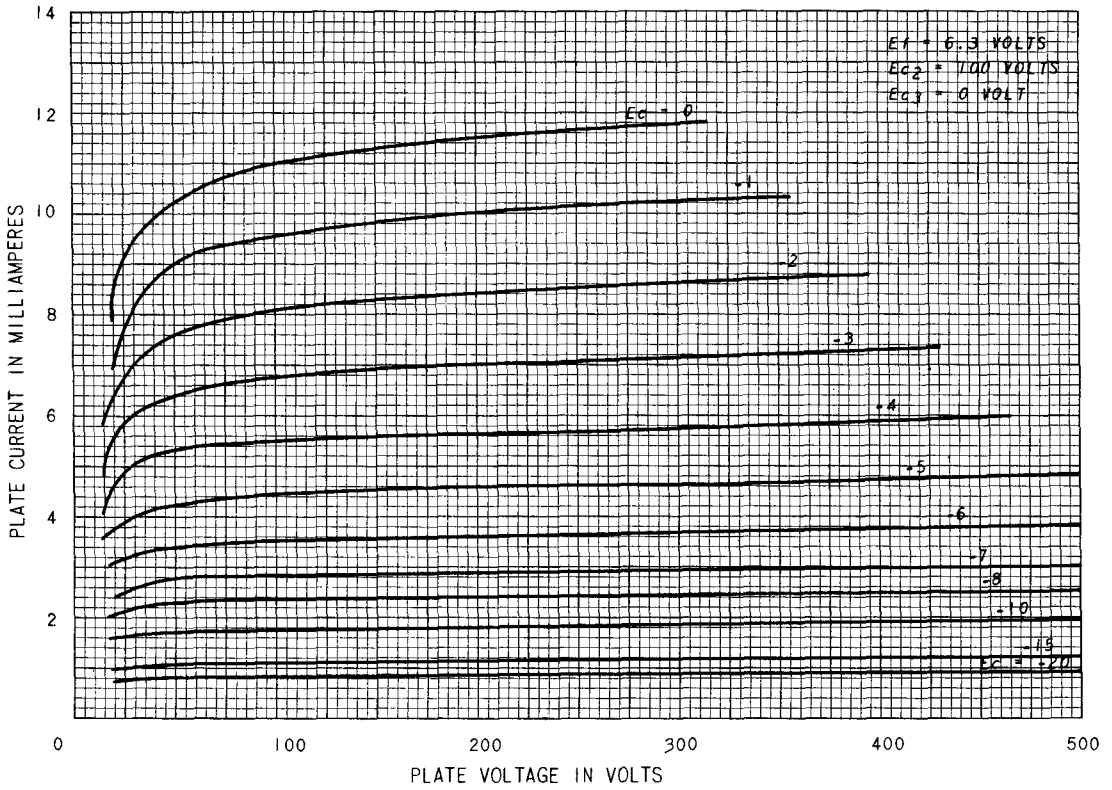
CLASS A AMPLIFIER

Heater Voltage	6.3	6.3	6.3	Volts
Plate Voltage	100	250	250	Volts
Screen Voltage	100	100	125	Volts
Suppressor Voltage **	0	0	0	Volt
Grid Bias Voltage	-1	-3	-3	Volts
Plate Resistance (Approx)	0.15	0.8	0.6	Megohm
Transconductance	1650	1450	1650	Micromhos
Grid Bias Voltage §	-38.5	-42.5	-52.5	Volts
Plate Current	9.5	7.0	10.5	Milliamperes
Screen Current	2.7	1.7	2.7	Milliamperes

*** Connected to cathode at socket terminal.*

§ Approximate values required to reduce transconductance to 2 micromhos.

AVERAGE PLATE CHARACTERISTICS



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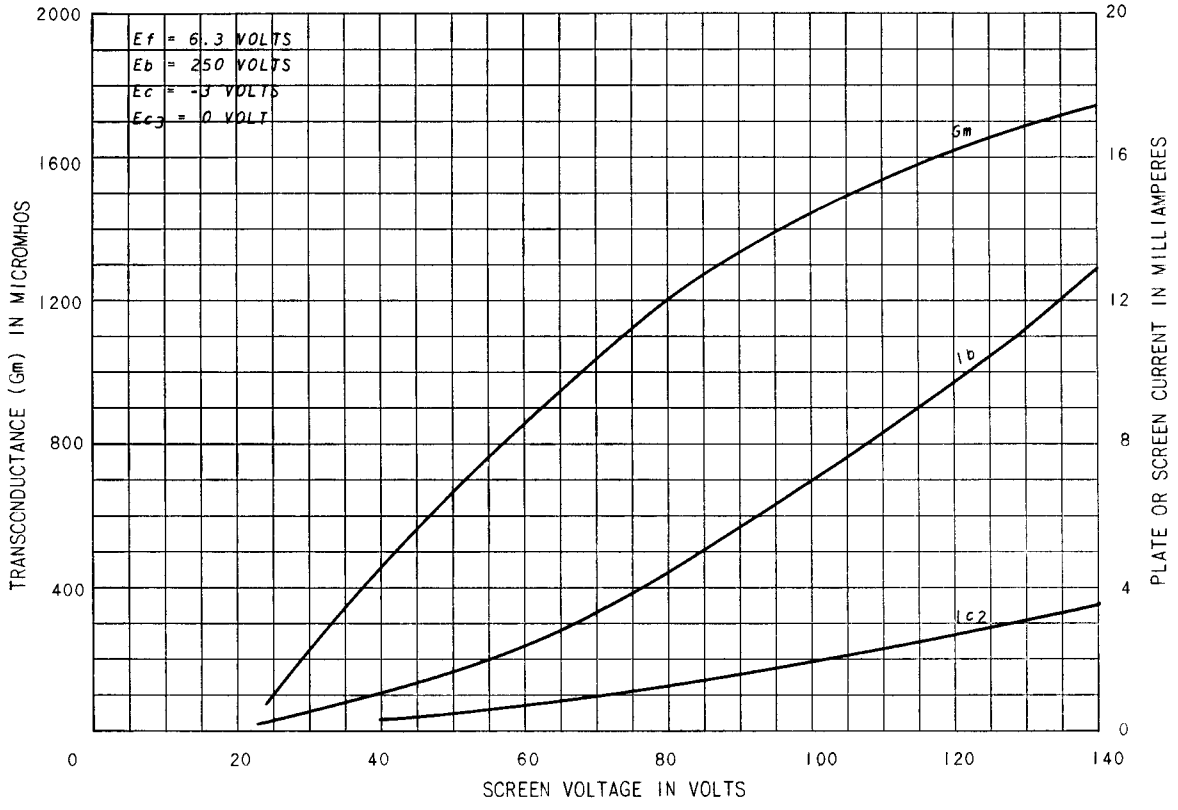

Electronics Department

GENERAL ELECTRIC

Schenectady, N. Y.