



12SF5

Description and Rating

HIGH-MU TRIODE AMPLIFIER

GENERAL DESCRIPTION

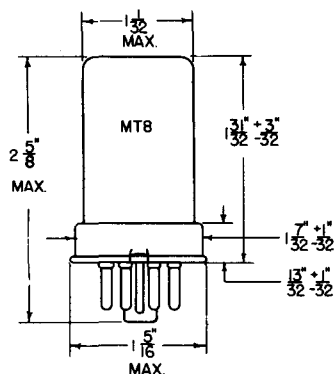
Principal Application: The 12SF5 is a heater-cathode type high-mu triode designed for service as a high gain audio-frequency amplifier and is especially useful in resistance-coupled amplifier cir-

cuits in a-c/d-c or battery operated equipment. Except for heater rating the 12SF5 and 6SF5 are identical.

Cathode: Coated Unipotential
Heater Voltage (A-C or D-C) 12.6 Volts
Heater Current 0.15 Ampere
Envelope: MT-8 Metal Shell
Base: . . B6-23 Small Wafer Octal 6-Pin Phenolic

Mounting Position: Any
Direct Interelectrode Capacitances: *
Grid to Plate 2.4 μf
Input 4.0 μf
Output 3.6 μf

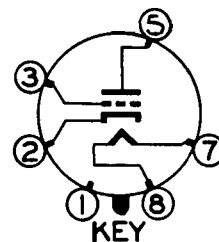
PHYSICAL DIMENSIONS



TERMINAL CONNECTIONS

Pin 1 - Metal Shell
Pin 2 - Cathode
Pin 3 - Grid
Pin 5 - Plate
Pin 7 - Heater
Pin 8 - Heater

BASING DIAGRAM



RMA 6AB
BOTTOM VIEW

MAXIMUM RATINGS

	Design Center	Absolute	
Plate Voltage	300	330	Volts
D-C Heater-Cathode Voltage	90	100	Volts

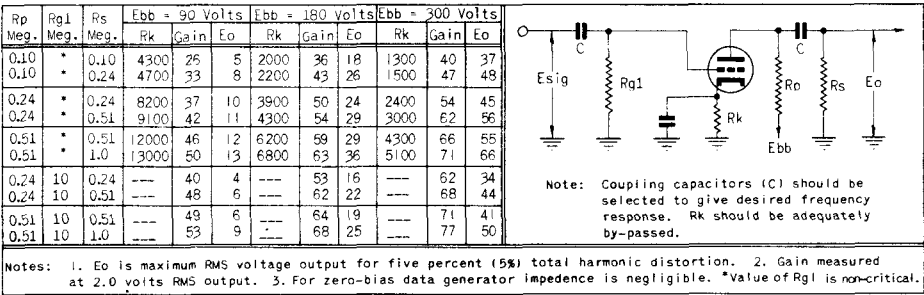
CLASS A AMPLIFIER

CHARACTERISTICS AND TYPICAL OPERATION

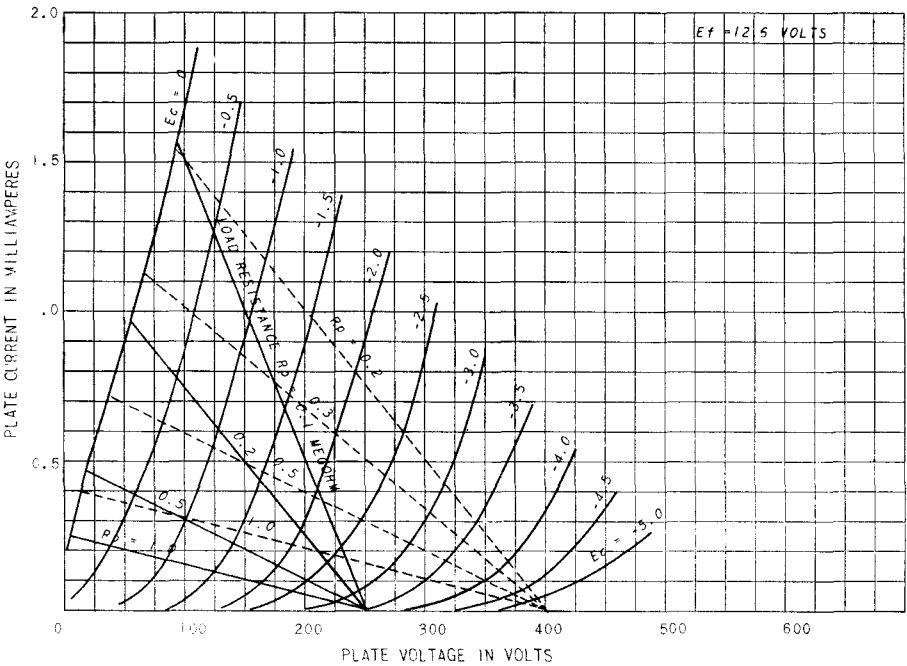
Heater Voltage	12.6	12.6	Volts
Plate Voltage	100	250	Volts
Grid Bias Voltage	-1	-2	Volts
Amplification Factor	100	100	
Plate Resistance	85000	66000	Ohms
Transconductance	1150	1500	Micromhos
Plate Current	0.4	0.9	Milliampere

* Approximate values with metal shell connected to cathode.

CLASS A RESISTANCE-COUPLED AMPLIFIER



AVERAGE PLATE CHARACTERISTICS



AVERAGE CHARACTERISTICS

