



12J5

Description and Rating
GENERAL-PURPOSE TRIODE

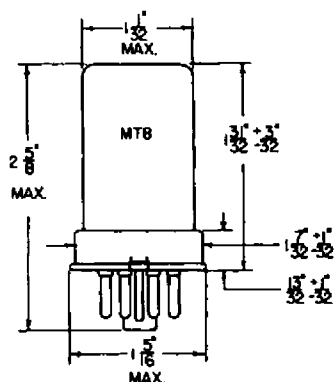
GENERAL DESCRIPTION

Principal Application: The 12J5 is a medium-mu general-purpose triode designed for use as an amplifier, an oscillator, or a detector. Except for heater ratings, the 12J5 is identical to the 6J5.

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 5-Pin

Mounting Position: Any
Direct Interelectrode Capacitances: *
Grid to Plate 3.4 $\mu\mu\text{f}$
Input 3.4 $\mu\mu\text{f}$
Output 3.6 $\mu\mu\text{f}$

PHYSICAL DIMENSIONS

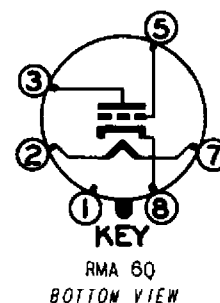


RMA 8-1

TERMINAL CONNECTIONS

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

BASING DIAGRAM



MAXIMUM RATINGS

DESIGN CENTER VALUES:

Plate Voltage	300	Volts
Positive D-C Grid Voltage	0	Volts
Plate Dissipation	2.5	Watts
Total Cathode Current	20	Milliamperes
D-C Heater-Cathode Voltage	90	Volts

CLASS A₁ AMPLIFIER

CHARACTERISTICS AND TYPICAL OPERATION

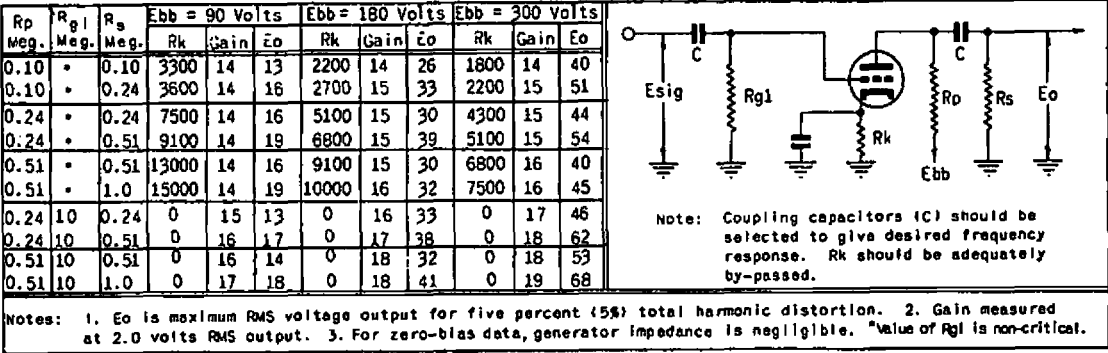
Plate Voltage	90	250	Volts
Grid Bias Voltage **	0	-8	Volts
Amplification Factor	20	20	
Plate Resistance	6700	7700	Ohms
Transconductance	3000	2600	Micromhos
Plate Current	10	9.0	Milliamperes

* With shell connected to cathode

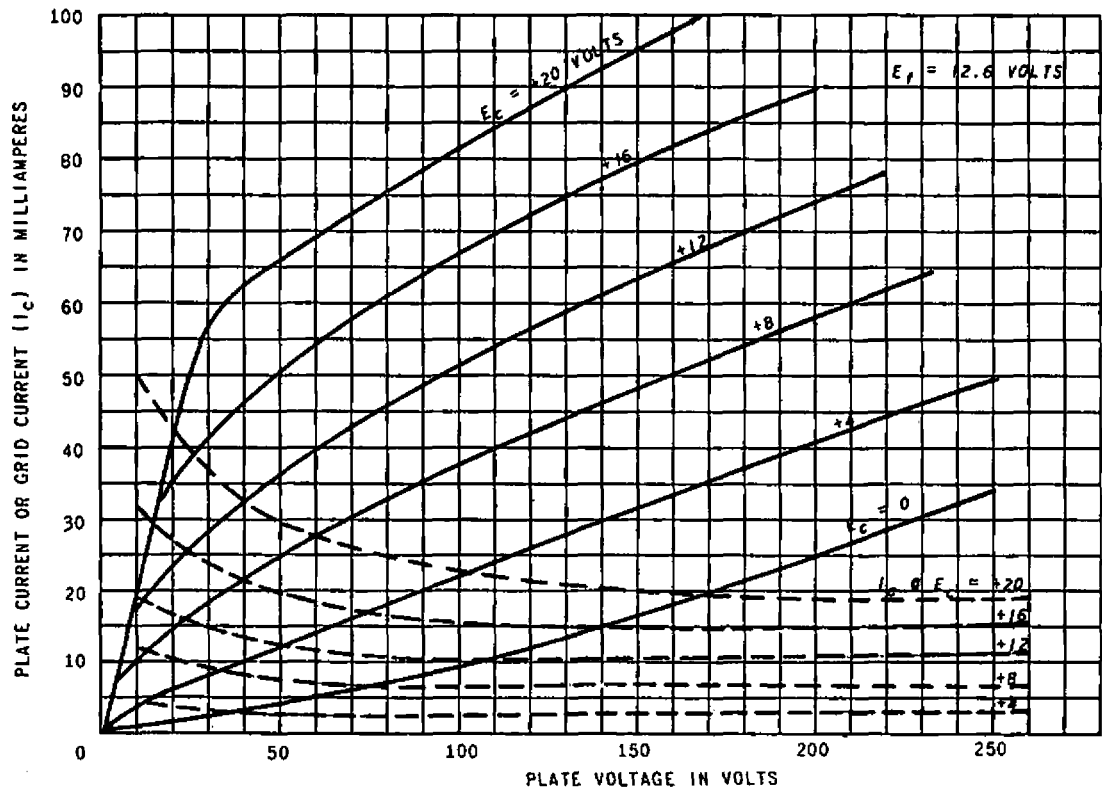
** The d-c resistance in the grid circuit under maximum rated conditions should not exceed 1.0 megohm.



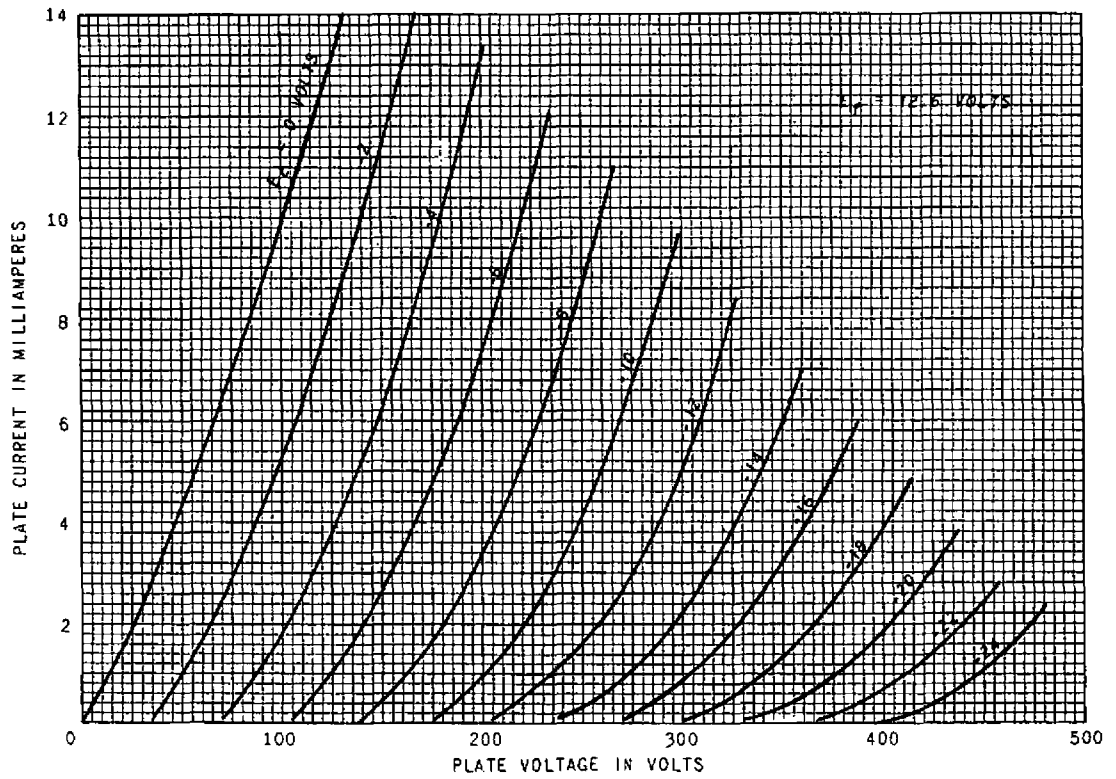
CLASS A RESISTANCE-COUPLED AMPLIFIER



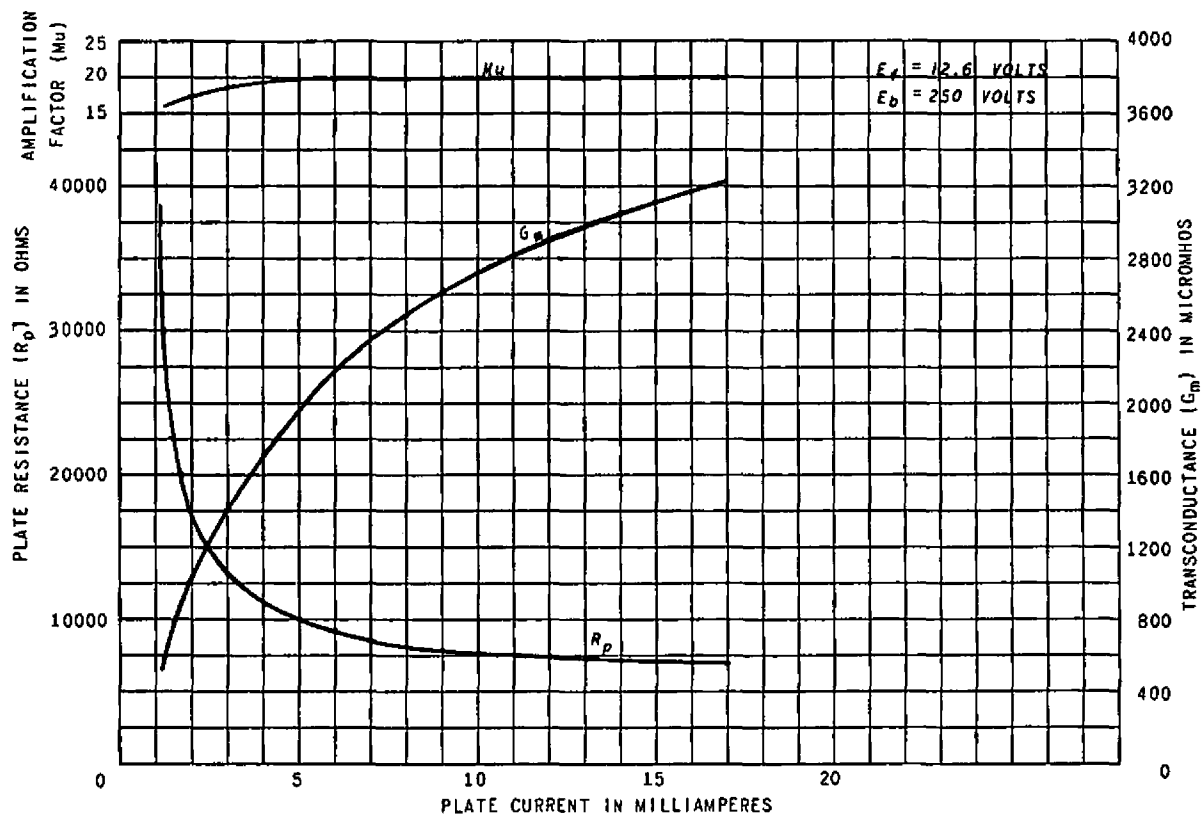
AVERAGE PLATE CHARACTERISTICS



AVERAGE PLATE CHARACTERISTICS



AVERAGE CHARACTERISTICS



Tube Divisions, Electronics Department

GENERAL  **ELECTRIC**

Schenectady, N. Y.