

DESCRIPTION AND RATING

The 6AB4 is a miniature triode designed for use as a grounded-grid radio-frequency amplifier, frequency converter, or oscillator at frequencies below approximately 300 megacycles.

GENERAL

ELECTRICAL

Cathode—Coated Unipotential
 Heater Voltage, AC or DC..... 6.3 Volts
 Heater Current..... 0.15 Amperes
 Direct Interelectrode Capacitances

MECHANICAL

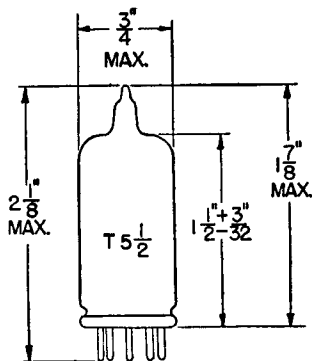
Mounting Position—Any
 Envelope—T-5½, Glass
 Base—E7-1, Miniature Button 7-Pin

	With Shield*	Without Shield
Grid to Plate: (g to p).....	1.5	1.5 pf
Input: g to (h+k).....	2.2	2.2 pf
Output: p to (h+k).....	1.4	0.5 pf
Heater to Cathode: (h to k).....	2.9	2.9 pf
Plate to Cathode: (p to k).....	0.20	0.24 pf
Grounded-Grid Input: k to (h+g).....	5.2	5.0 pf
Grounded-Grid Output: p to (h+g).....	2.6	1.7 pf

MAXIMUM RATINGS

DESIGN-CENTER VALUES

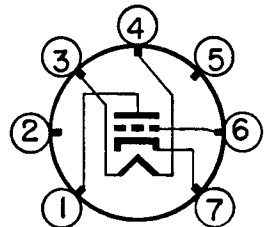
Plate Voltage..... 300 Volts	Heater-Cathode Voltage
Negative DC Grid Voltage..... 50 Volts	Heater Positive with Respect to Cathode.. 90 Volts
Plate Dissipation..... 2.5 Watts	Heater Negative with Respect to Cathode. 90 Volts

PHYSICAL DIMENSIONS


EIA 5-2

TERMINAL CONNECTIONS

- Pin 1—Plate
- Pin 2—No Connection
- Pin 3—Heater
- Pin 4—Heater
- Pin 5—No Connection
- Pin 6—Grid
- Pin 7—Cathode

BASING DIAGRAM


EIA 5CE

CHARACTERISTICS AND TYPICAL OPERATION

CLASS A₁ AMPLIFIER

Plate Voltage.....	100	250	Volts
Cathode-Bias Resistor.....	270	200	Ohms
Amplification Factor.....	60	60	
Plate Resistance, approximate.....	15000	10900	Ohms
Transconductance.....	4000	5500	Micromhos
Plate Current.....	3.7	10	Milliamperes
Grid Voltage, approximate			
I _b = 10 Microamperes.....	-5	-12	Volts

* With external shield (EIA 316) connected to pin 7.

Design-Center ratings are limiting values of operating and environmental conditions applicable to a bogey electron tube of a specified type as defined by its published data and should not be exceeded under normal conditions.

The tube manufacturer chooses these values to provide acceptable serviceability of the tube in average applications, making allowance for normal changes in operating conditions due to rated supply-voltage variation, equipment

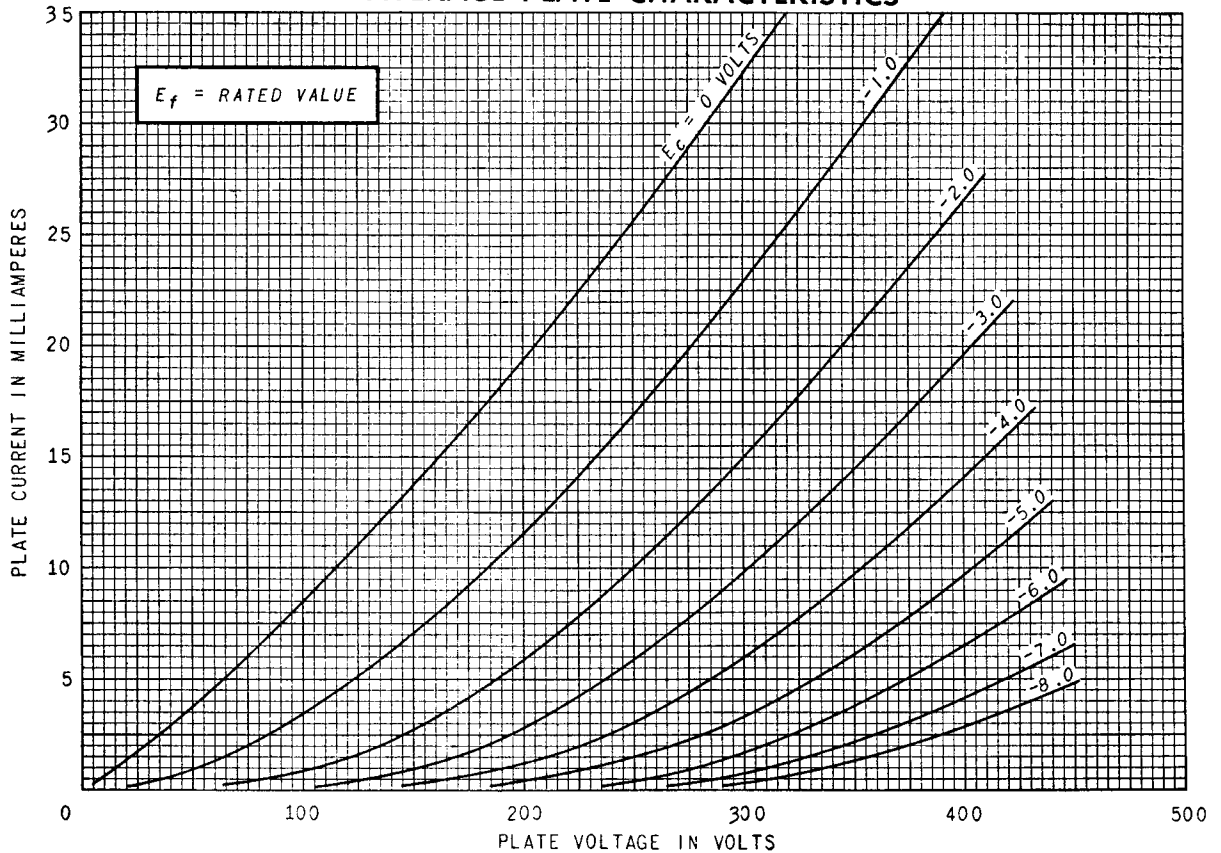
component variation, equipment control adjustment, load variation, signal variation, environmental conditions, and variations in the characteristics of the tube under consideration and of all other electron devices in the equipment.

The equipment manufacturer should design so that initially no design-center value for the intended service is exceeded with a bogey tube under normal operating conditions at the stated normal supply voltage.

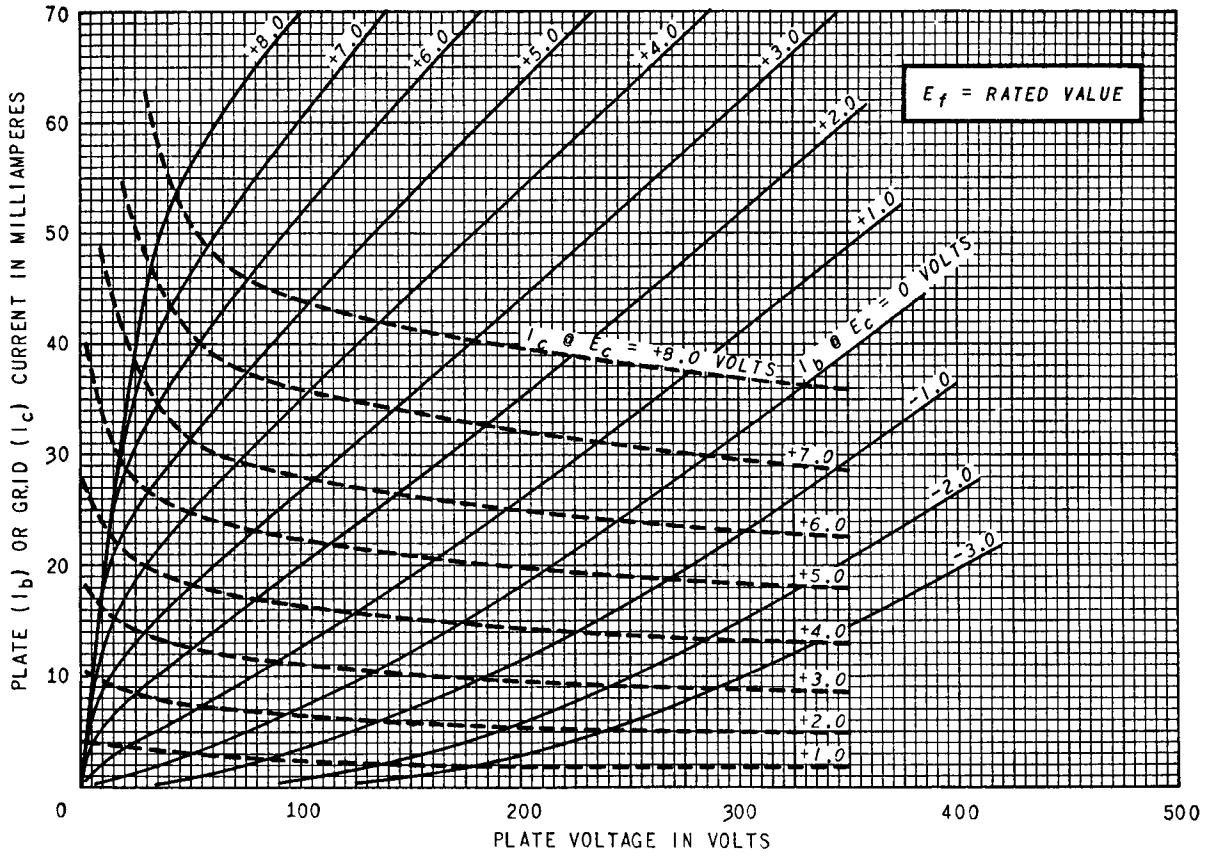
The tubes and arrangements disclosed herein may be covered by patents of General Electric Company or others. Neither the disclosure of any information herein nor the sale of tubes by General Electric Company conveys any license under patent claims covering combinations of tubes with other devices or

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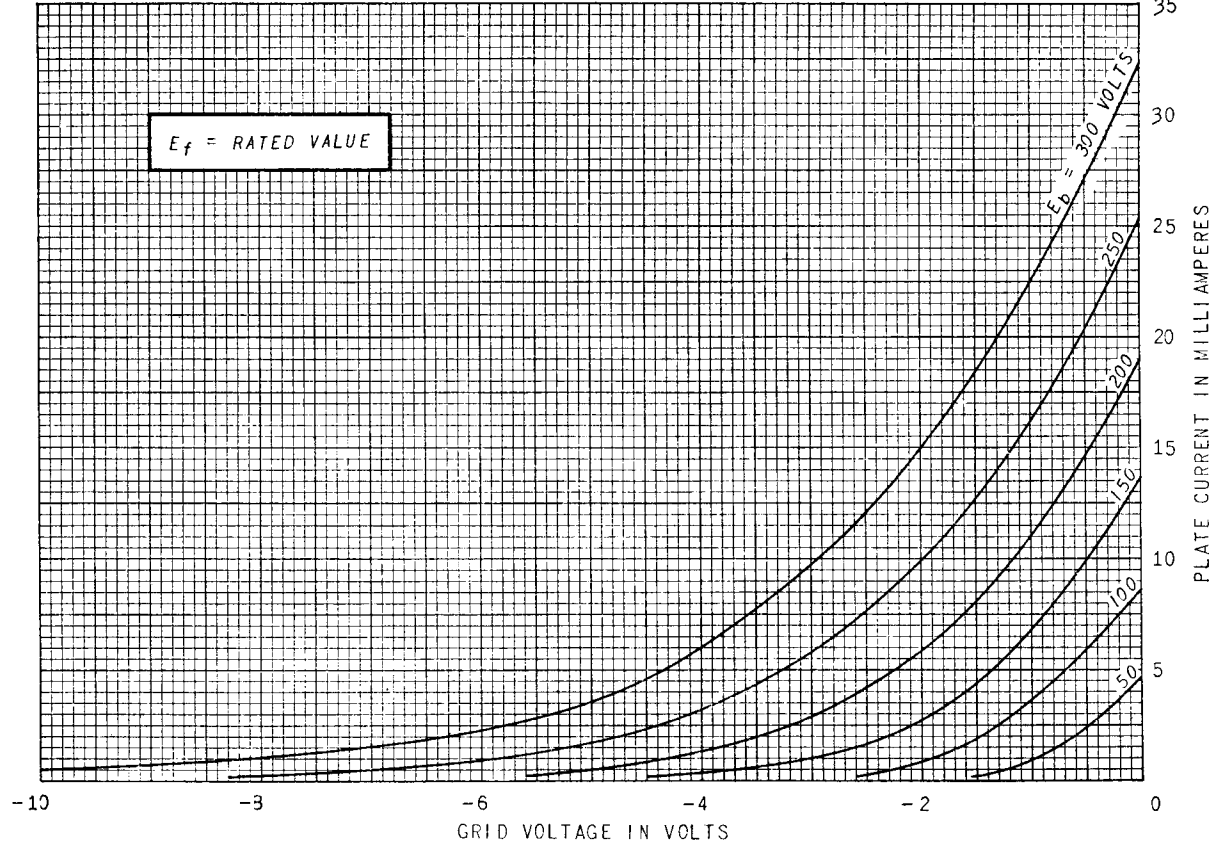
AVERAGE PLATE CHARACTERISTICS



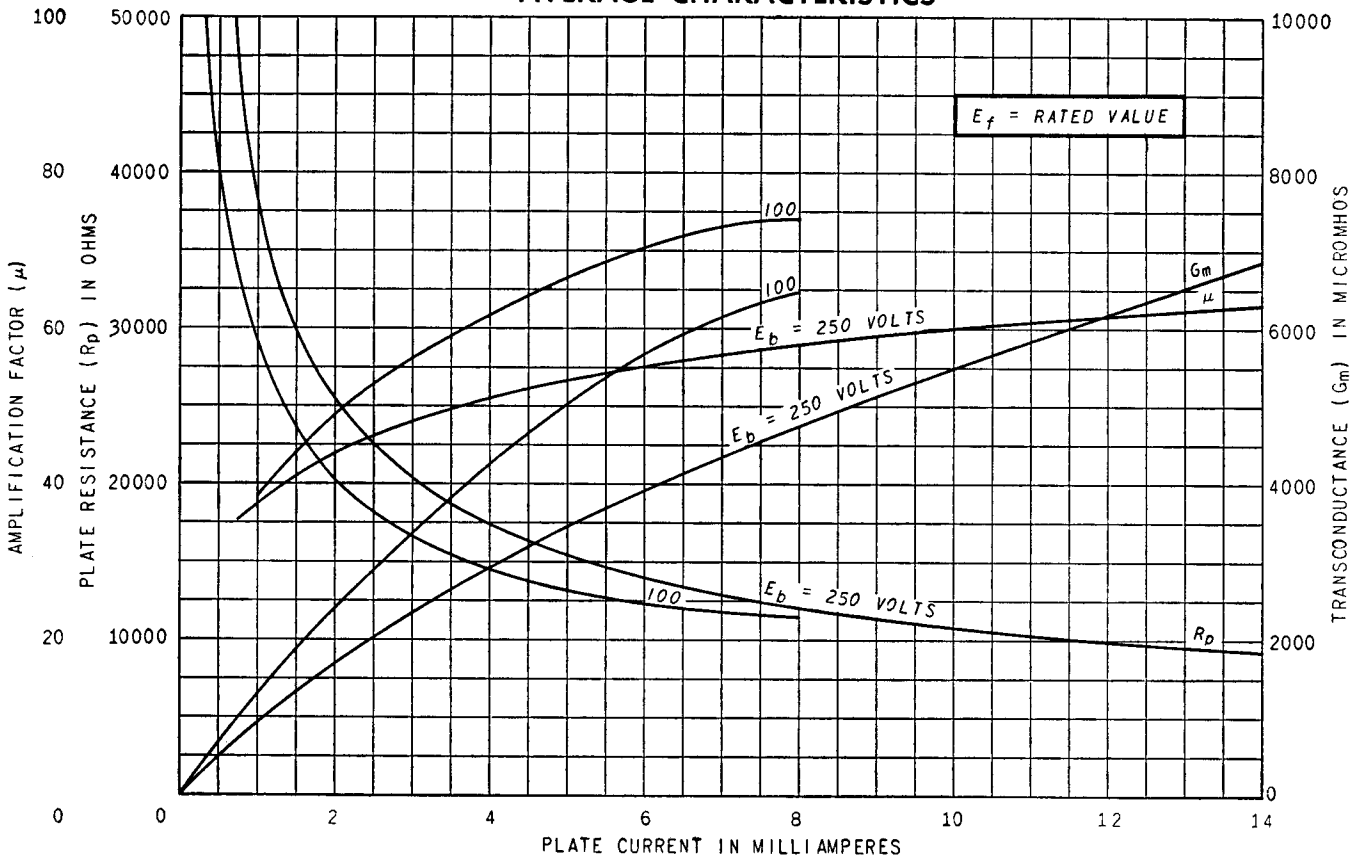
AVERAGE PLATE CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS



AVERAGE CHARACTERISTICS



RECEIVING TUBE DEPARTMENT



Owensboro, Kentucky