6BN4

MEDIUM-MU TRIODE

7-PIN MINIATURE TYPE

For use as rf amplifier in grid-drive circuits of VHF television tuners

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:		
Voltage (AC or DC)	6.3 ± 10%	volts
Current	0.2	amp
Direct Interelectrode Capacitances (Approx.):		
Grid to plate	1.2	μμf
Grid to cathode and heater	3.2	μμf
Plate to cathode and heater	1.4	μμf
Heater to cathode	2.8	μμf

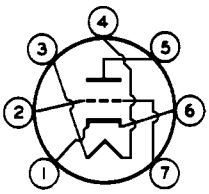
Characteristics, Class A_1 Amplifier:

Plate Supply Voltage	150	volts
Cathode Resistor	220	ohms
Amplification Factor	43	
Plate Resistance (Approx.)	6300	ohms
Transconductance	6800	μmhos
Plate Current	9	ma
Grid Voltage (Approx.) for plate μa = 100	-6	volts

Mechanical:

Operating Position	Any
Maximum Overall Length	2-1/8"
Maximum Seated Length	1-7/8"
Length, Base Seat to Bulb Top (Excluding tip)	1-1/2" ± 3/32"
Diameter	0.650" to 0.750"
Dimensional Outline	*See General Section*
Bulb	T5-1/2
Base	Small-Button Miniature 7-Pin (JEDEC No.E7-1)
Basing Designation for BOTTOM VIEW	7EG

Pin 1 - Cathode
Pin 2 - Grid
Pin 3 - Heater
Pin 4 - Heater



Pin 5 - Plate
Pin 6 - Cathode
Pin 7 - Grid

AMPLIFIER — Class A_1

Maximum Ratings, *Design-Maximum Values:*

PLATE VOLTAGE	275 max. volts
GRID VOLTAGE:	
Positive-bias value	0 max. volts
CATHODE CURRENT	22 max. ma
PLATE DISSIPATION	2.2 max. watts

← Indicates a change.

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PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. .	100 max.	volts
Heater positive with respect to cathode. .	100 max.	volts

Maximum Circuit Values:

Grid-Circuit Resistance	0.5 max.	megohm

o With external shield JEDEC No.316 connected to cathode except as noted.

● With external shield JEDEC No.316 connected to ground.

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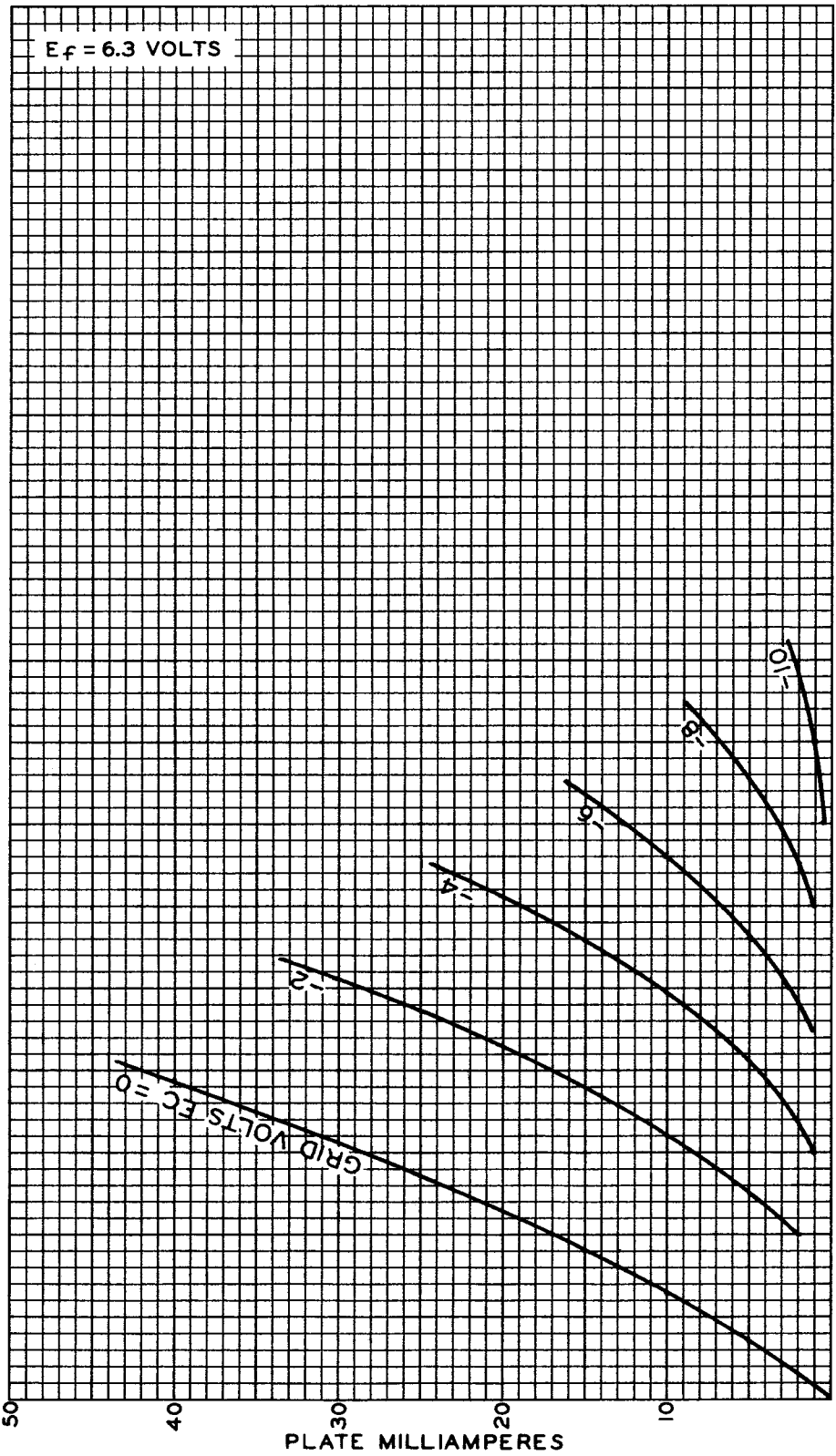
AVERAGE PLATE CHARACTERISTICS



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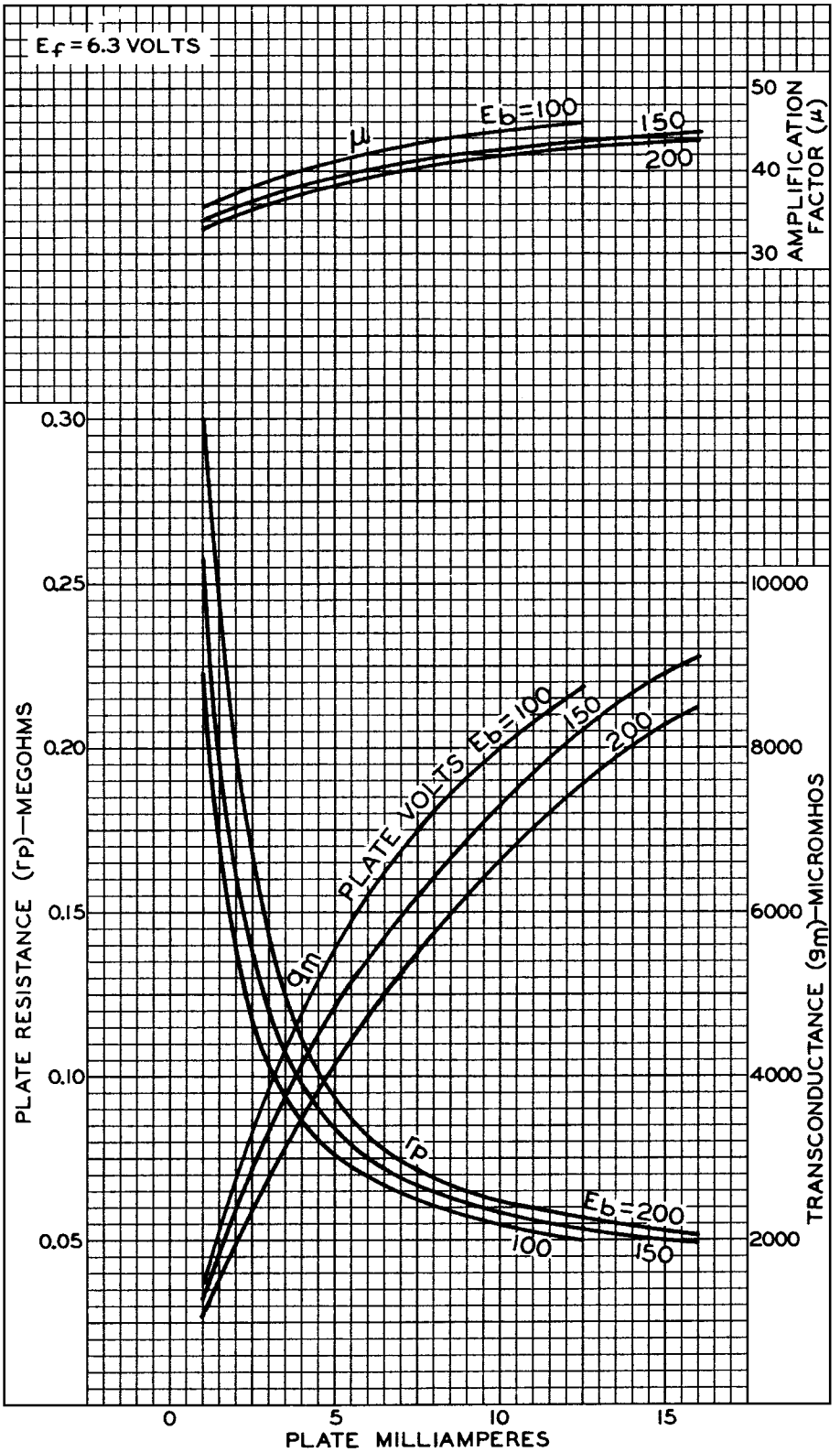
AVERAGE CHARACTERISTICS



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