



6BN4

MEDIUM-MU TRIODE

7-PIN MINIATURE TYPE

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

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GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC)	6.3 ± 10%	volts
Current	0.2	amp

Direct Interelectrode Capacitances (Approx.):⁰

Grid to plate	1.2	μf
Grid to cathode and heater	3.2	μf
Plate to cathode and heater	1.4	μf
Heater to cathode	2.8 [•]	μf

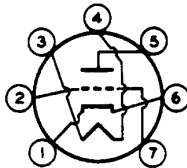
Characteristics, Class A₁ Amplifier:

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 A₁

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

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

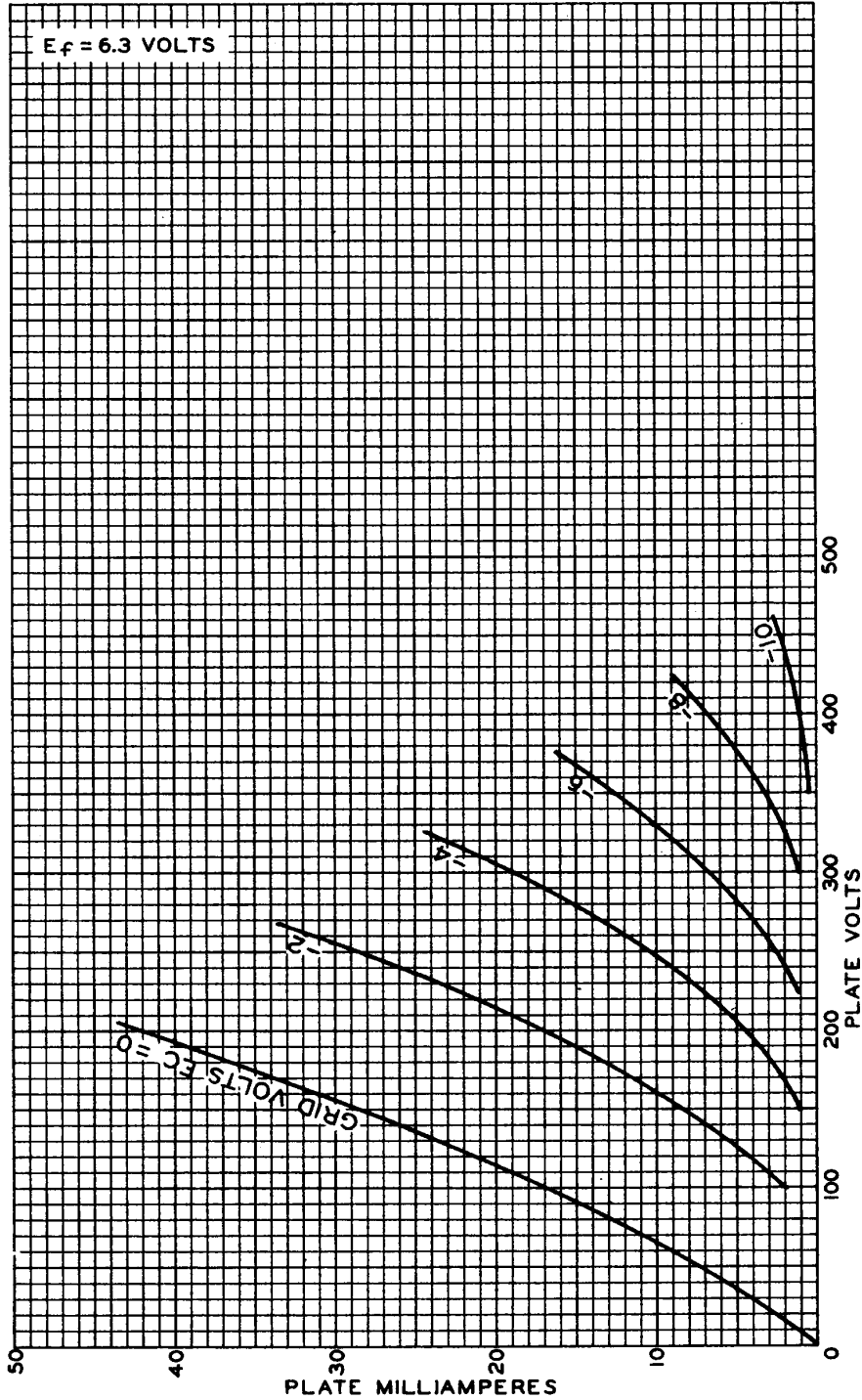
● With external shield JEDEC No.316 connected to ground.



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AVERAGE PLATE CHARACTERISTICS



TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-8933RI

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