

Beam Power Tube

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC)	6.3	volts
Current	0.8	amp

Direct Interelectrode Capacitances:^a

Grid No.1 to plate.	0.7 max.	μf
Grid No.1 to cathode & grid No.3, grid No.2, and heater	10	μf
Plate to cathode & grid No.3, grid No.2, and heater	5.1	μf

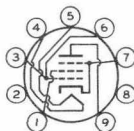
Characteristics, Class A₁ Amplifier:

Plate Voltage	60	250	volts
Grid-No.2 Voltage	250	250	volts
Grid-No.1 Voltage	0	-18	volts
Mu Factor, Grid No.1 to Grid No.2	-	8.7	
Plate Resistance (Approx.)	-	0.05	megohm
Transconductance	-	5100	μmhos
Plate Current	180 ^b	40	ma
Grid-No.2 Current	30 ^b	3	ma
Grid-No.1 Voltage (Approx.) for plate ma. = 0.2	-	-37	volts

Mechanical:

Operating Position	Any
Maximum Overall Length	3-1/16"
Maximum Seated Length	2-13/16"
Length, Base Seat to Bulb Top (Excluding tip)	2-7/16" $\pm$ 3/32"
Diameter	0.750" to 0.850"
Dimensional Outline	See General Section
Bulb	T6-1/2
Base	Small-Button Noval 9-Pin (JEDEC No.E9-1)
Basing Designation for BOTTOM VIEW	9HN

Pin 1-Grid No.2
Pin 2-No Connection
Pin 3-Grid No.1
Pin 4-Heater
Pin 5-Heater
Pin 6-Grid No.1



Pin 7-Cathode,
Grid No.3
Pin 8-Internal
Connection—
Do Not Use
Pin 9-Plate

VERTICAL-DEFLECTION AMPLIFIER

Maximum Ratings, Design-Center Values Except as Noted:

For operation in a 525-line, 30-frame system^c

DC PLATE VOLTAGE	315 max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE (Absolute maximum) ^d	2200 ^e max.	volts

← Indicates a change.



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DC GRID-No.2 (SCREEN-GRID) VOLTAGE. . . .	285	max.	volts
PEAK NEGATIVE-PULSE GRID-No.1 (CONTROL-GRID) VOLTAGE.	250	max.	volts
CATHODE CURRENT:			
Peak.	210	max.	ma
Average	60	max.	ma
GRID-No.2 INPUT	1.5	max.	watts
PLATE DISSIPATION	10	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode.	200	max.	volts
Heater positive with respect to cathode.	200 ^f	max.	volts
BULB TEMPERATURE (At hottest point on bulb surface).	250	max.	°C

Maximum Circuit Values:

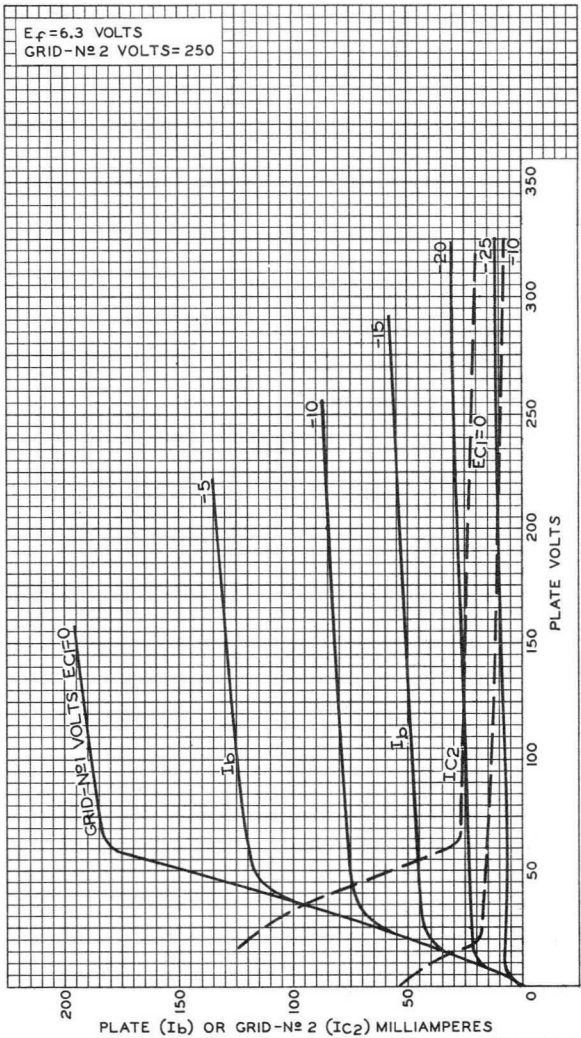
Grid-No.1-Circuit Resistance:

For fixed-bias operation.	2.2	max.	megohms
For cathode-bias operation.	2.2	max.	megohms

- ^a Without external shield.
- ^b This value can be measured by a method involving a recurrent wave form such that the maximum ratings of the tube will not be exceeded.
- ^c As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.
- ^d This rating is applicable when the duration of the voltage pulse does not exceed 15 per cent of one vertical scanning cycle. In a 525-line, 30-frame system, 15 per cent of one vertical scanning cycle is 2.5 milliseconds.
- ^e Under no circumstances should this absolute-maximum value be exceeded.
- ^f The dc component must not exceed 100 volts.



AVERAGE CHARACTERISTICS



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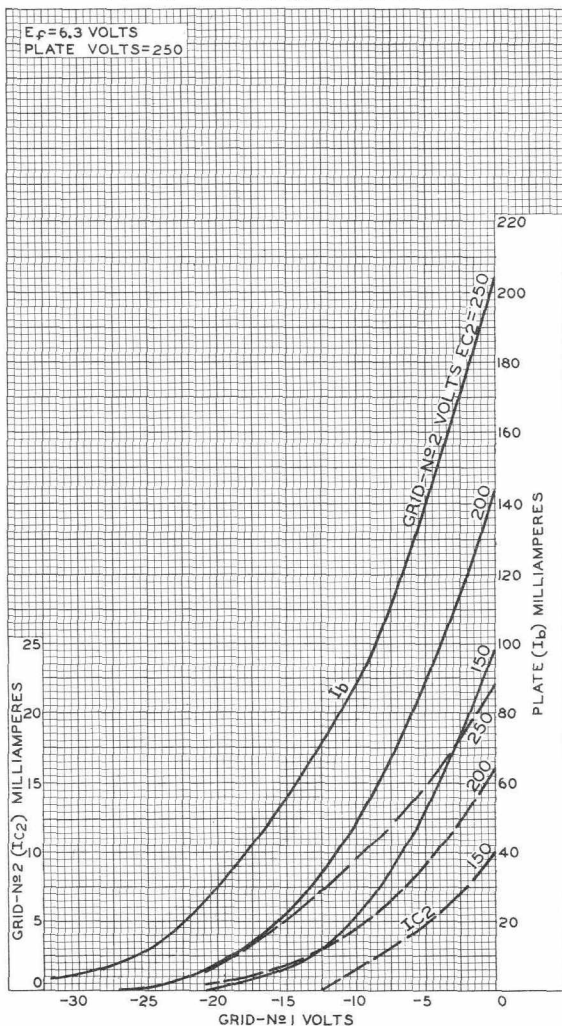
AVERAGE PLATE CHARACTERISTICS



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AVERAGE CHARACTERISTICS



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