

Beam Power Tube

9-PIN MINIATURE TYPE

With Heater Having Controlled Warm-Up Time

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC)	6.3	volts
Current	0.45 ± 6%	amp
Warm-up time (Average)	11	sec
Direct Interelectrode Capacitances:▲		
Grid No.1 to plate	0.4 max.	μf
Grid No.1 to cathode & grid No.3, grid No.2, and heater	9	μf
Plate to cathode & grid No.3, grid No.2, and heater	6	μf

Characteristics, Class A₁ Amplifier:

Plate Voltage	75	250	volts
Grid-No.2 Voltage	250	250	volts
Grid-No.1 Voltage	0	-15	volts ←
Plate Resistance (Approx.)	-	73000	ohms
Transconductance	-	4800	μmhos
Plate Current	130*	46	ma
Grid-No.2 Current	16*	4.6	ma
Grid-No.1 Voltage (Approx.) for plate μ _a = 100	-	-40	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" ± 3/32"
Maximum Diameter	0.750" to 0.875"
Dimensional Outline	See <i>General Section</i>
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 Connec-
 tion
 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

← Indicates a change.



6CZ5

VERTICAL-DEFLECTION AMPLIFIER

→ Maximum Ratings, Design-Maximum Values:

*For operation in a 525-line, 30-frame system**

DC PLATE VOLTAGE	350	max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE [♦]	2200	max.	volts
DC GRID-No.2 (SCREEN-GRID) VOLTAGE	315	max.	volts
PEAK NEGATIVE-PULSE GRID-No.1 (CONTROL-GRID) VOLTAGE	275	max.	volts
CATHODE CURRENT:			
Peak	155	max.	ma
Average	45	max.	ma
GRID-No.2 INPUT	2.2	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 [♣]	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.	0.5	max.	megohm
For cathode-bias operation.	1	max.	megohm

[▲] Without external shield.

[●] 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.

[★] As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

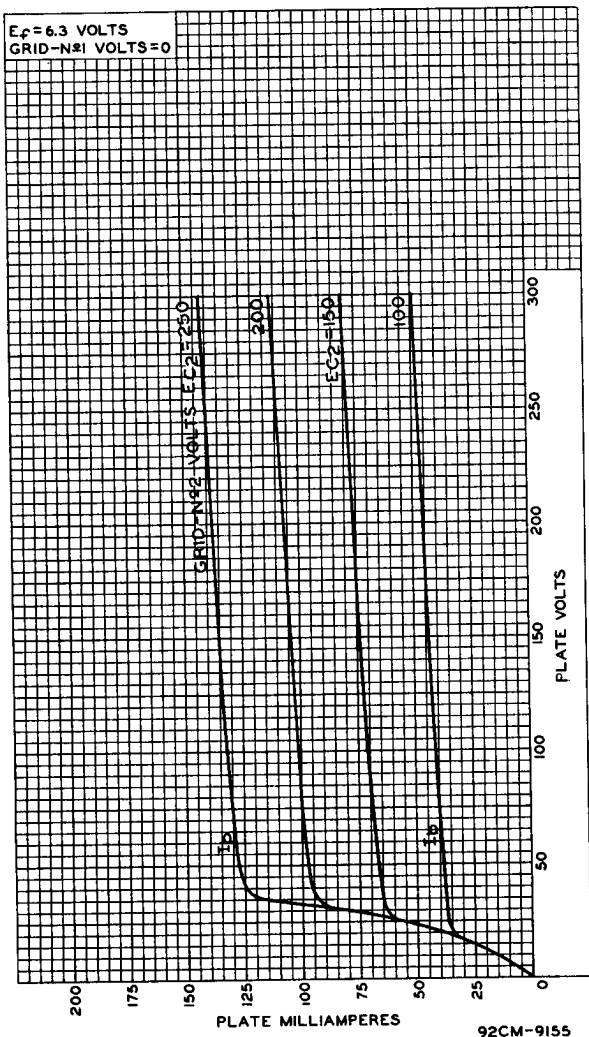
[♦] This rating is applicable when the duration of the voltage pulse does not exceed 15 per cent of one vertical scanning cycle. In a 525-line, 30-frame system, 15 per cent of one vertical scanning cycle is 2.5 milliseconds.

[♣] The dc component must not exceed 100 volts.

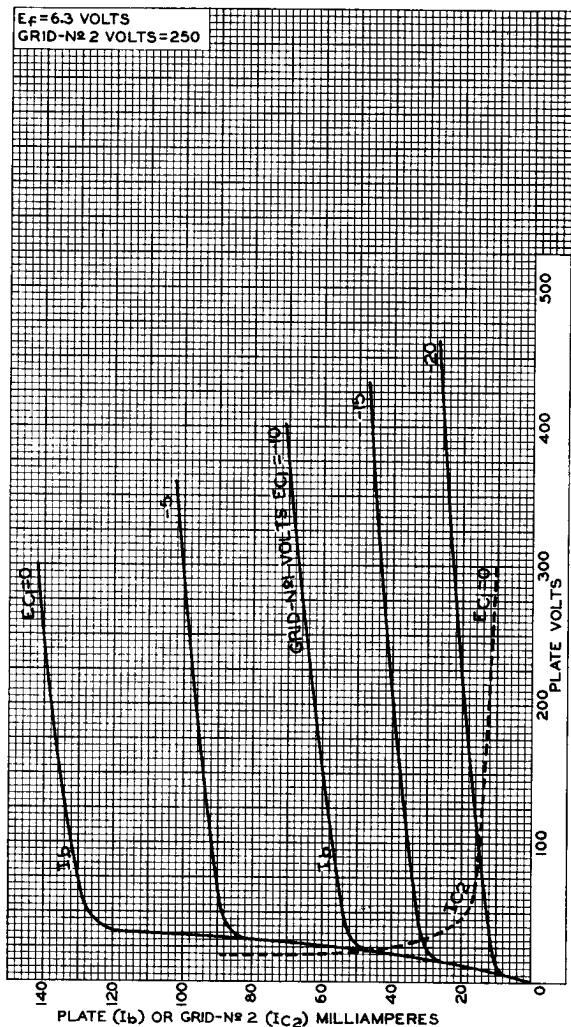
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AVERAGE PLATE CHARACTERISTICS



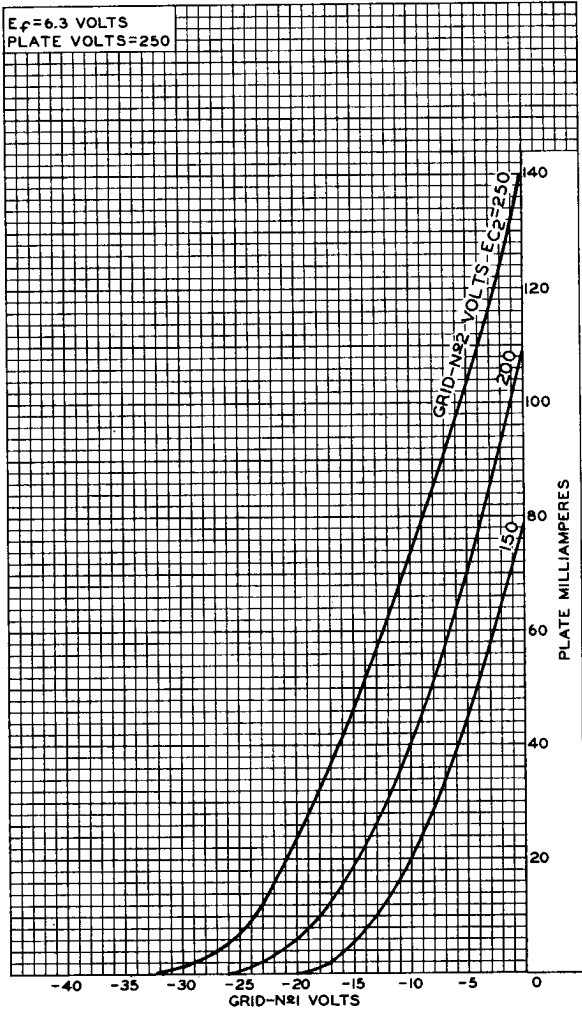
AVERAGE CHARACTERISTICS



92CM-9157



AVERAGE CHARACTERISTICS



92CM-9156R1

