

Beam Power Tube

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC)	6.3 $\pm$ 10%	volts
Current at 6.3 volts.	1.2	amp

Direct Interelectrode Capacitances
(Approx.):^a

Grid No.1 to plate.	0.5	μ f
Grid No.1 to cathode & grid No.3, grid No.2, and heater	14	μ f
Plate to cathode & grid No.3, grid No.2, and heater	9	μ f

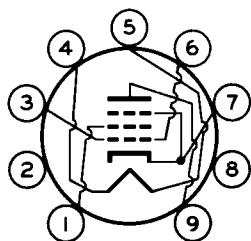
Characteristics, Class A₁ Amplifier:

			Triode Con- nec- tion ^b	
Plate Voltage	60	200	150	volts
Grid-No.2 Voltage	150	150	150	volts
Grid-No.1 Voltage	0	-22.5	-22.5	volts
Amplification Factor.	-	-	4.3	
Plate Resistance (Approx.)	-	15000	-	ohms
Transconductance.	-	5500	-	μ hos
Plate Current	260 ^c	55	-	ma
Grid-No.2 Current	20 ^c	2	-	ma
Grid-No.1 Voltage (Approx.) for plate ma. = 0.1	-	-55	-	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 0.875"
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.	9CK

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-No Connec-
tion
Pin 9-Plate



VERTICAL-DEFLECTION AMPLIFIER

Maximum Ratings, Design-Maximum Values:

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

DC PLATE VOLTAGE.	330	max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE ^e	2200	max.	volts
DC GRID-No.2 (SCREEN-GRID) VOLTAGE. . . .	220	max.	volts
PEAK NEGATIVE-PULSE GRID-No.1 (CONTROL-GRID) VOLTAGE.	250	max.	volts
CATHODE CURRENT:			
Peak.	225	max.	ma
Average	65	max.	ma
GRID-No.2 INPUT	2.5	max.	watts
PLATE DISSIPATION	11	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

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For cathode-bias operation. 2.2 max. megohms

^a Without external shield.

^b With grid No.2 connected to plate.

^c 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.

^d As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

^e This rating is applicable where 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.

^f The dc component must not exceed 100 volts.