



6DT5

BEAM POWER TUBE

9-PIN MINIATURE TYPE

6DT5

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC) 6.3 $\pm$ 10% volts

Current 1.2 amp

Direct Interelectrode Capacitances

(Approx.):^oGrid No.1 to plate. 0.57 μ fGrid No.1 to cathode & grid No.3,
grid No.2, and heater 12.5 μ fPlate to cathode & grid No.3,
grid No.2, and heater 4.9 μ fCharacteristics, Class A₁ Amplifier:

Plate Voltage 60 80 250 volts

Grid-No.2 Voltage 150 250 250 volts

Grid-No.1 Voltage 0 0 -16.5 volts

Transconductance. - - 6200 μ mhos

Plate Current 95* 195* 44 ma

Grid-No.2 Current 8.5 19 1.5 ma

Grid-No.1 Voltage (Approx.) for
plate ma. = 100 - - -35 volts

Mechanical:

Operating Position. Any

Maximum Overall Length. 2-5/8"

Maximum Seated Length 2-3/8"

Length, Base Seat to Bulb Top (Excluding tip) . . . 2" $\pm$ 3/32"

Diameter. 0.750" to 0.875"

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 Con-
nection

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-Maximum Values:

For operation in a 525-line, 30-frame system[□]

DC PLATE VOLTAGE. 315 max. volts

PEAK POSITIVE-PULSE PLATE VOLTAGE*. 2200 max. volts

DC GRID-No.2 (SCREEN-GRID) VOLTAGE. 285 max. volts

PEAK NEGATIVE-PULSE GRID-No.1

(CONTROL-GRID) VOLTAGE. 250 max. volts



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CATHODE CURRENT:

Peak	190	max.	ma
Average	55	max.	ma
GRID-No.2 INPUT	2	max.	watts
PLATE DISSIPATION	9	max.	watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode .	200	max.	volts
Heater positive with respect to cathode .	200 [▲]	max.	volts

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.