

DESCRIPTION

Cathode ray tube for oscilloscopes

ELECTRICAL DATA

Heating

Heater voltage

6.3 V

Heater current

0.31 A

Focusing method

electrostatic

Deflection method

double electrostatic

$D_1 D_2$ symmetrical

$D_3 D_4$ symmetrical

Direct interelectrode capacitances

D_1 to all other electrodes except D_2

2.8 μF

D_2 to all other electrodes except D_1

2.8 μF

D_3 to all other electrodes except D_4

3.0 μF

D_4 to all other electrodes except D_3

3.3 μF

D_1 to D_2

0.8 μF

D_3 to D_4

0.6 μF

Grid No.1 to all other electrodes

7.0 μF

OPTICAL DATA

Phosphor number

P_1

P_7

P_{11}

Fluorescent color

yellowish green

purplish blue

blue

Persistence

medium

long

medium short

MECHANICAL DATA

Cathode

coated unipotential

Outline

see drawing

Base

loctal 9 p

Mounting position

any

LINE WIDTH

Measured on a circle of 2" diameter at

Grid No.3 voltage = 800 V

Beam current = 0.5 μA

0.028"

MAXIMUM RATINGS (Design Center Values)

Grid No. 3 voltage

{ max. 1000 V
min. 800 V

Grid No. 2 voltage

max. 400 V

Grid No. 1 voltage { negative.
positive

max. 100 V

max. 0 V

Peak voltage between deflection plates D_1 and D_2

max. 750 V

Peak voltage between deflection plates D_3 and D_4

max. 450 V

Screen dissipation

max. 19.4 mW/sq. inch

MAXIMUM CIRCUIT VALUES

Grid No. 1 circuit resistance

max. 0.5 M Ω

Deflection plate circuit resistance

max. 5 M Ω

TYPICAL CHARACTERISTICS

Grid No. 3 voltage

800 V

Grid No. 2 voltage

200 to 300 V

Negative grid No. 1 bias

0 to 50 V

Deflection factor $\begin{cases} D_1 D_2 \\ D_3 D_4 \end{cases}$

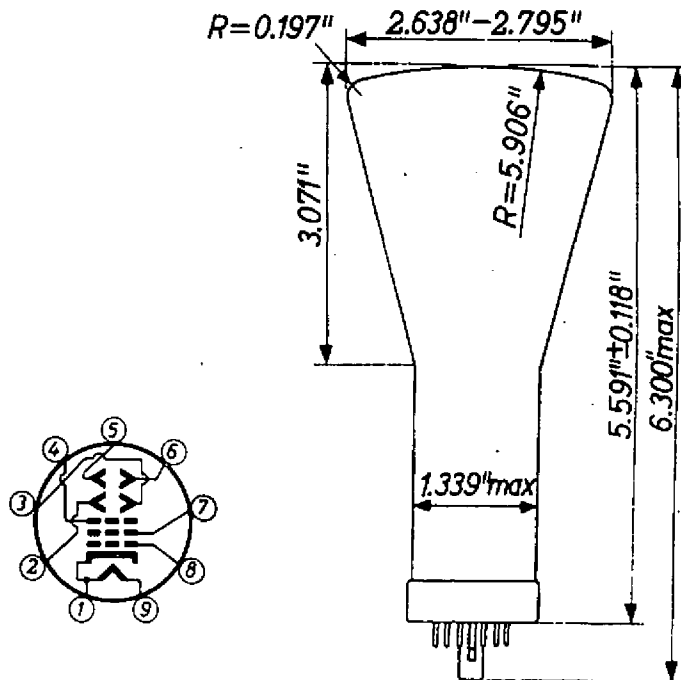
160 V/inch

100 V/inch

LOCATION OF THE DEFLECTION PLATES

WITH RESPECT TO THE BASE

The angle between a plane through the tube axis and perpendicular to the D_1 - D_2 deflection plates and a plane through the tube axis and base-pin No. 5 is $90 \pm 10^\circ$.



BASE CONNECTIONS

Pin No.	Element
1	Heater and cathode
2	Deflection plate No. 3
3	Deflection plate No. 4
4	Grid No. 3 anode
5	Deflection plate No. 1
6	Deflection plate No. 2
7	Grid No. 2
8	Grid No. 1
9	Heater