CORPORATION

## 23DNP4

## DFSCRIPTION

23" Direct View
Rectangular Glass Envelope
Spherical Faceplate
Gray Filter Glass Aluminized Screen 6.3 Volt. 600 Ma . Heater Bonded Implosion Panel

Low $G_{2}$ Voltage ( $35 \mathrm{~V}_{0}$ ) Cathode Drive Design $92^{\circ}$ Magnetic Deflection Electrostatic Focus External Conductive Coating No Ion Trap



BOTTOM VIEW BASE

## SPECIAL CHARACTERISTICS

Anode Penetration Current 4
ELECTRICAL DATA
Focusing Method
Deflection Angles, Approximate
Horizontal
Vertical DIagonal
Direct Interelectrode Capacitances
Cathode to all other electrodes, approximate Grid "1 to all other electrodes, approximate External Conductive Coating to Anode

Heaber Current at 6.3 volta
Heater Warm-up time

150 ма max.

Electrostatic
81 Degrees
66 Degrees
92 Degrees
5 uuf
6 uuf
2500 max. uuf
2000 min. uuf $600 \pm 10 \% \mathrm{Ms}$
11 Sesends

## OPTICAL DATA

Phosphor Number
Light Transmittance at Center, Approximate
PL, Aluminized
40 Percent
MECHANICAL DATA
Overall Length
Greatest Dimensions of Tube (Implosion Panel)

Diagonal
Width
Height
Minimum Useful Screen Dimensions (Projected) Diagonal
Horizontal Axis
Vertical Axis
Area
Neck Length
Bulb
Imploaion Panel
Bulb Contact
Bage
$187 / 16 \pm 7 / 16$ Inches $2445 / 64 \pm 3 / 32-1 / 16$ Inches $21-5 / 16 \pm 1 / 8$ Inches $1713 / 32 \pm 3 / 3 \overline{2}-1 / 8$ Inches
Basing ..... 12L
Bulb Contact Alignment
Anode contact aligns with pin position \#6 ..... $\pm 30$ Degrees
RATINGS (Design Maximum System)
Unless othorwise specified, voltages arepositive and measured with respect to Grid \#1
Maximum Anode Voltage
Minimum Anode VoltageMaximum Grid \#4 (Focusing Electrode) VoltageMinimum Grid \#2 VoltageCathode Voltage
Maximum Heater Voltage25,000 Volts16,000 Volts
Maximum Grid \#2 Voltage$\pm 1100-500$ Volts
Minimum Heater Voltage ..... 5.8 Volts60 Volts
25 Volts
Maximum Heater-Cathode Voltage
Heater negatives with respect to cathode
During warmmup period not to exceed 15 seconds -410 VoltsAfter equipment warm-up period- 180 Volts
Heater positive with respect to cathode ..... 180 Volts
TYPICAL OPERATING CONDITTONS
CATHODE DRIVE SERVICE
Unless otherwise specified, all voltage valuesare positive with respect to Grid \#l
Anode Voltage Grid \#4 Voltage (Focusing Electrode) ${ }^{2}$, 320,000 Volts250 Volts
Grid \#2 Voltage 1Cathode Volatge35 Volts25 to 50 Volts
MAXIMOM CIRCUIT VALUES
MaxImum Grid "1 Circuit Resistance 1.5 Mogohms
NOTES100 Volts
7 Volts

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NOTEI
I. REFERENCE LINE DETERMINED BY PLANE C-C' OF JEDEC REFERENCE LINE GAUGE NO. 116
2. BASE PIN NO. 6 ALIGNS WITH ANODE CONTACT WITHIN $30^{\circ}$

