

GENERAL ELECTRIC

INDUSTRIAL AND MILITARY CATHODE RAY TUBES

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CATHODE RAY TUBE

5 INCH ROUND, GLASS

FACEPLATE - SPHERICAL, GREY

FOCUS - ELECTROSTATIC

PERSISTENCE - SHORT

DEFLECTION - MAGNETIC

70-DEGREE DEFLECTION ANGLE

ALUMINIZED

DESCRIPTION & RATING

The 5DRP4 is an electrostatic-focus and magnetic-deflection cathode ray tube for radar applications. Particular features of this tube are its short over-all length and small neck diameter, which permits its use in less equipment space.

GENERAL

ELECTRICAL

Heater Voltage	6.3 Volts
Heater Current	0.3 ± 10% Amperes

Focusing Method .. Electrostatic

Deflecting Method .. Magnetic

Deflection Angle, approximate 70 Degrees

Direct Interelectrode Capacitances, approximate

Cathode to All Other Electrodes	8 μ uf
Grid No. 1 to All Other Electrodes.	10 μ uf
Grid No. 2 to All Other Electrodes.	10 μ uf

OPTICAL

Phosphor Number	P4
Fluorescent Color	White
Phosphorescent Color	White
Persistence	Short

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MECHANICAL

Bulb Contact - Recessed Small-Ball Cap, JETEC No. J1-22

Base - 9 Pin Miniature

Basing, JETEC Designation - Special

Bulb Contact Alignment

Plane of J1-22 Contact passes halfway between Pins #1 and #9 \pm 10 Degrees
J1-22 Contact on same side as Pins #1 and #9.

Mounting Position .. Any

MAXIMUM RATINGS

DESIGN-CENTER VALUES*

Negative-Bias Value 200 Max Volts DC

Peak Heater-Cathode Voltage

Heater Negative With Respect to Cathode 180 Max Volts

Heater Positive With Respect to Cathode 180 Max Volts

TYPICAL OPERATING CONDITIONS

Anode Voltage 10,000 Volts DC

Focusing Anode Voltage

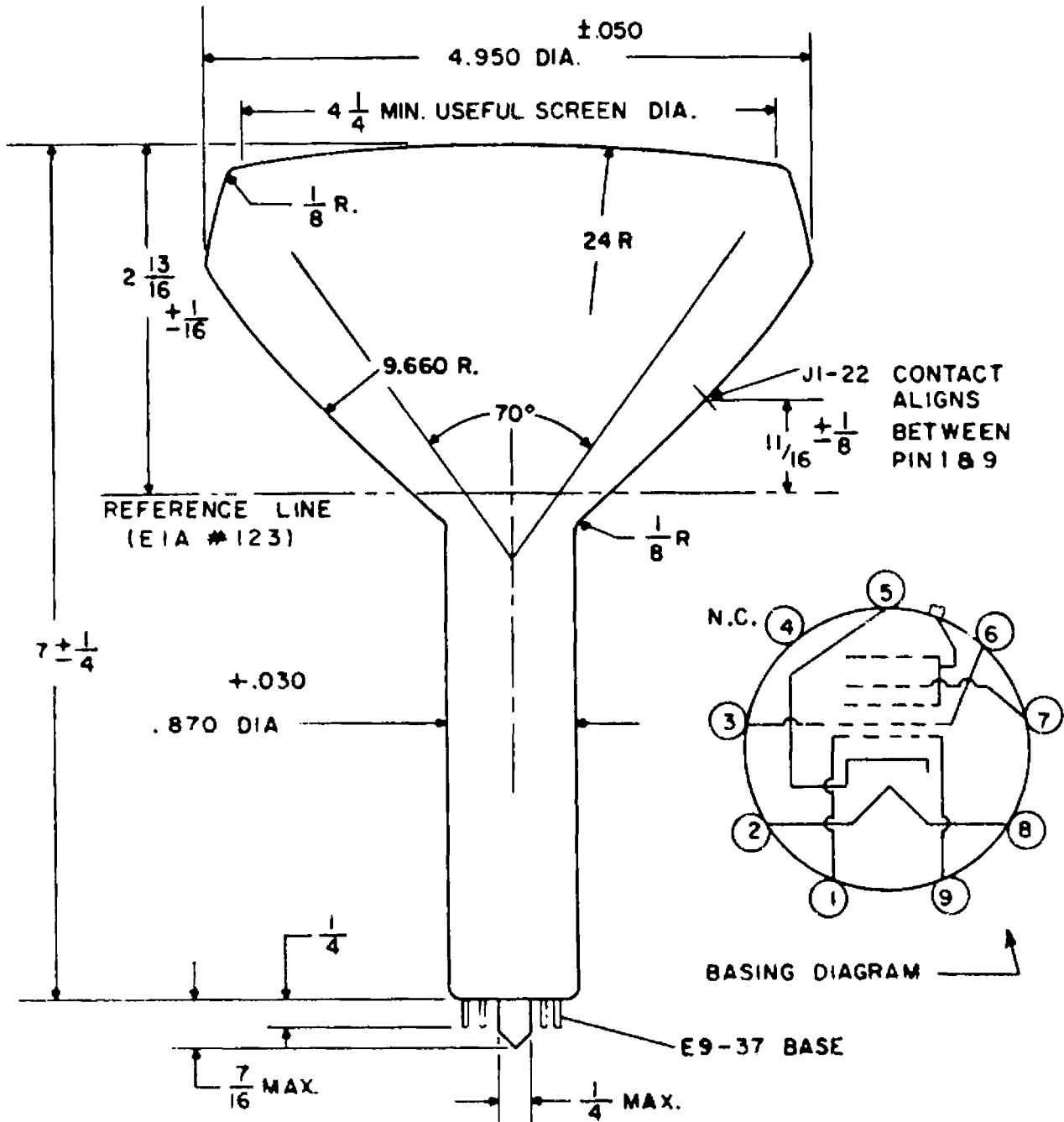
MAXIMUM CIRCUIT VALUES

Grid-No. 1 Circuit Resistance 1.5 Max Megohms

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- * The maximum ratings provide a ten percent safety factor in accordance with the standard design-center system of rating cathode ray tubes. The tube will withstand the combined effects of variations in line voltage and components provided the maximum design-center values are not exceeded by more than ten percent.
- # For visual extinction of undeflected focused spot.
- ++ Measured in accordance with MIL-E-1C, paragraph 4.12.6.2 at an anode current of 100 microamperes.
- ## The center of the undeflected, unfocused spot will fall within a circle of 10 millimeters radius concentric with the tube face.

Cathode Ray Tube Department
GENERAL ELECTRIC COMPANY
Syracuse, New York



PIN	CONNECTIONS
1	GRID #1
2	HEATER
3	GRID #2
4	NOT CONNECTED
5	CATHODE

PIN	CONNECTIONS
6	GRID #2
7	FOCUS
8	HEATER
9	GRID #1