

### TYPE 5EAP-

The Du Mont Type 5EAP- is a 5-inch diameter, single beam, low voltage electrostatic focus, magnetic deflection cathode-ray tube. The bulb is an all-glass blank only 8 1/8 inches long, having a 7/8-inch diameter neck offset for sector scanning.

The Type 5EAP- is particularly suitable for miniaturization techniques employed in airborne marine and portable radar receivers.

The screen is aluminized to provide high brightness and for stabilization of screen potential.

### GENERAL CHARACTERISTICS

#### Electrical Data

Focusing Method Deflecting Method	Electrostatic Magnetic	
Direct Interelectrode Capacitances, Approximate		
Cathode to all other electrodes	3.2	μμf
Grid No. 1 to all other electrodes	6.4	μμf

### Optical Data

Phosphor Number	7
Fluorescence	White
Phosphorescence	Yellow-Green
Persistence	Long
Faceplate	Clear

#### Mechanical Data

Overall Length (Seated Height)	9 1/8 <sup>+0</sup> -1/8	Inches
Greatest Diameter of Bulb Minimum Useful Screen Diameter	4.950 ± .062 4 · 1/2	Inches Inches
Bulb Contact Base *	J1-22 E9-37	

<sup>\*</sup> A socket with a center opening to clear the tubulation should be used. Care should be taken in handling the tube to avoid damaging the exposed tubulation and bending the base pins.

Allen B. Du Mont Laboratories
Divisions of Fairchild Camera and Instrument Corp.
Clifton, N. J.

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Bulh	Contac	<ul> <li>Δ1</li> </ul>	ianment:	,
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Plane of J1-22 cap passes halfway between Pins No. 1 and No. 9

J1-22 cap on same side as Pins No. 1 and No. 9

± 10

Degrees

## RATINGS (Design Center Values) 1

Heater Voltage Heater Current at 6,3 Volts	6.3 0.3 ± 5%	Volts Ampere
Accelerator Voltage Accelerator Input	11,000 6	Max. Volts DC Max. Watts
Focusing Electrode Voltage Grid No. 2 Voltage	-500 to +1000 500	Max. Volts DC Max. Volts DC
Cathode Voltage Negative Bias Value Negative Peak Value Positive Bias Value Positive Peak Value	0 0 150 180	Max. Volts DC Max. Volts Max. Volts DC Max. Volts
Peak Heater-Cathode Voltage Heater negative with respect to cathode Heater positive with respect to cathode	180 180	Max. Volts Max. Volts

### TYPICAL OPERATING CONDITIONS 1

Accelerator Voltage	8000	Volts DC
Focusing Electrode Voltage <sup>2</sup>	-40 to +250	Volts DC
Grid No. 2 Voltage	250	Volts DC
Cathode Voltage 3	10 to 25	Volts DC
Modulation 4	-20	Volts Max.
Line Width "A" <sup>4</sup>	0.014	Inch Max.
Focusing Electrode Current for any operating condition	-15 to +15	Microamperes

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### TYPE 5EAP-

### MAXIMUM CIRCUIT VALUES

Grid No. 1 Circuit Resistance

1,5

Max. Megohms

### NOTES

- 1. Voltage values measured with respect to Grid No. 1.
- 2. With the cathode voltage adjusted to give an accelerator current of 100 microamperes on a 2 x 2-inch raster pattern.
- 3. Visual extinction of the undeflected, focused spot.
- 4. Measured in accordance with MIL-E-1 specifications with an accelerator current of 100 micro-amperes.

# DUMUNI CATHODE-RAY TUBE

