

**DESCRIPTION**

The SC-3814 is an electrostatically focused and deflected cathode ray tube designed for zoned display applications. The tube features provision for six simultaneous independently controlled zoned traces, and uses a 10" x 12" rectangular glass bulb with large radius of curvature faceplate. Deflection plate leads are brought out through the neck wall to reduce inter-electrode capacitance and a monoaccelerator design is employed to provide maximum pattern linearity and deflection factor uniformity.

The tube is encapsulated in an integral mu metal shield for protection against stray magnetic and electric fields and breakdown at high altitudes. Color coded leads are brought out of the encapsulation to make connection to associated circuitry.

**CHARACTERISTICS**

**GENERAL DATA**

Heater Voltage . . . . .	6.3 Volts
Heater Current . . . . .	1.8 Amp
Overall Length (Approx.) . . . . .	21 1/2 Inches
Phosphor* . . . . .	P7

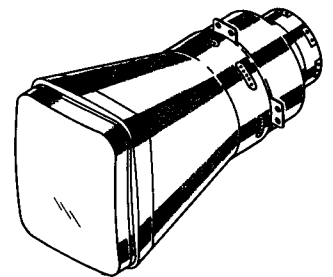
\*The SC-3814 can be supplied with several other screen phosphors.

**TYPICAL OPERATING CONDITIONS**

Anode Voltage . . . . .	4000 Volts dc
EA1 for Focus . . . . .	900-1300 Volts dc
Grid No. 1 Voltage for Cutoff . . . . .	-70 to -120 Volts dc
Deflection Factors	
1D2 . . . . .	80-100 Volts dc Per Inch
3D4 . . . . .	38-52 Volts dc Per Inch
Useful Scan	
D1-D2 (Horizontal) . . . . .	9 Inches
3D4 (Vertical) . . . . .	2 1/2 Inches
(Major axis of the bulb is vertical)	
Parallelism of all Horizontal Traces . . . . .	0.55 ° Max.

**QUICK REFERENCE DATA**

- Six Independent Guns
- Zoned Displays
- 10 x 12 Inch Direct Viewed
- Electrostatic Focus
- Electrostatic Deflection
- Monoaccelerator Design
- Encapsulated in mu Metal Shield
- Color Coded Leads are Brought Out Through the Encapsulation



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*File Under*

**SPECIAL AND GENERAL  
PURPOSE CATHODE RAY TUBES**

OUTLINE

