

*Excellence in Electronics*

The type 5AHP— is a 5 inch electrostatic focus and magnetic deflection cathode ray tube suitable for radar applications. A low-voltage electrostatic focus lens is employed, designed to operate at or near cathode potential to afford substantially automatic focus, independent of accelerator voltage variations. In addition, the 5AHP— employs a high resolution electron gun. The final A designates a metallized screen, for greater light output, improved contrast, and to minimize screen charging effects.

MECHANICAL DATABASE: Medium Shell Octal 8-PinCAP: Recessed Small CavityTERMINAL CONNECTIONS:

Pin 1 No Connection
Pin 2 Heater
Pin 3 Grid #2
Pin 4 Grid #4

Pin 5 Grid #1
Pin 7 Cathode
CAP Grids #3 and #5
(Collector)
Pin 8 Heater

MOUNTING POSITION: Any**GENERAL DATA**

	5AHP7 5AHP7A	5AHP14 5AHP14A	5AHP19A
Phosphor	#7	#14	#19
Fluorescence	Blue	Blue	Orange
Phosphorescence	Yellow	Orange	Orange
Persistence	Long	Medium-long	Long
Focusing Method	Electrostatic	Electrostatic	Electrostatic
Deflecting Method	Magnetic	Magnetic	Magnetic
Deflection Angle	53°	53°	53°

ELECTRICAL DATADIRECT INTERELECTRODE CAPACITANCES: ($\mu\text{fds.}$) (approx.)

Grid #1 to all other electrodes	6
Cathode to all other electrodes	5

DESIGN CENTER MAXIMUM RATINGS:

Heater Current	0.6 ± 10% volts
Peak Heater-Cathode Voltage: ♦	
Heater-Negative with Respect to Cathode	180 volts DC
Heater-Positive with Respect to Cathode	180 volts DC
Collector Voltage ▲	10,000 volts DC
Grid #4 Voltage (Focusing Electrode) ●	-500 to +1000 volts DC
Grid #2 Voltage	700 volts DC
Grid #1 Voltage:	
Negative-Bias Value	180 volts DC
Positive-Bias Value *	0 volts DC
Positive-Peak Value	0 volts DC

CHARACTERISTICS AND TYPICAL OPERATION:

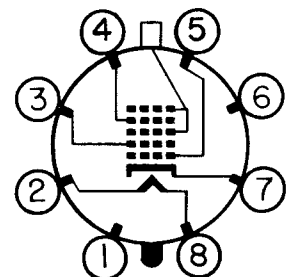
Heater Voltage	6.3	6.3 volts
Collector Voltage ▲	5000	7000 volts DC
Grid #4 Voltage (Focusing Electrode) ●	0 to 200	0 to 250 volts DC
Grid #2 Voltage	300	300 volts DC
Grid #1 Voltage ⊕	-28 to -72	-28 to -72 volts DC
Line Width ■	.010	.009 inch max.
Spot Position (undeflected) □	5/16	5/16 inch

MAXIMUM CIRCUIT VALUES:

Grid #1 Circuit Resistance	1.5 max. meg.
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TYPE

5AHP7
5AHP7A
5AHP14
5AHP14A
5AHP19A



Bottom View

8EF

