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CATHODE RAY TUBE TYPE 7AHP1

The 7AHP1 is a electrostatically focused and deflected cathode ray tube for radar or oscilloscope applications. It has a rectangular screen having an area of 5½ in. by 1½ in.

PHYSICAL SPECIFICATIONS

Base		Diheptal (B14A)
Bulb		Glass
Maximum overall length		16 <sup>15</sup> / <sub>16</sub> " (430mm)
Maximum bulb width		6 <sup>7</sup> / <sub>32</sub> " (158mm)
Maximum bulb height		2 <sup>11</sup> / <sub>16</sub> " (67.5mm)
Screen width		6" (152mm)
Screen height		2 <sup>1</sup> / <sub>2</sub> " (62mm)

BASING CONNECTIONS Basing 14AC

Pin 1	Heater	8	Deflecting plate y"
2	Cathode	9	Anode No.3
3	Grid No.1	10	Deflecting plate x"
4	Anode No.2	11	Deflecting plate x'
5	No connection	13 <del>12</del>	Anode No.1
6	Fluorescent screen	12 <del>13</del>	No connection
7	Deflecting plate y'	14	Heater

GENERAL ELECTRICAL DATA

Heater voltage	6.3	volts
Heater current	300	mamps
Focus		Electrostatic
* Deflection		Double electrostatic
Fluorescence		Green
Persistence		Medium, P1
* Both x and y plates are suitable for symmetrical or asymmetrical deflection.		

ELECTRODE CAPACITANCES

Grid No.1 to all other electrodes	10 max.	uuf
Deflecting plate x' to all other electrodes	20 max.	uuf
Deflecting plate x" to all other electrodes	20 max.	uuf
Deflecting plate y' to all other electrodes	16 max.	uuf
Deflecting plate y" to all other electrodes	16 max.	uuf

Deflecting plates x' to y'	3.0	uuf
Deflecting plates x' to y"	3.0	uuf
Deflecting plates x" to y'	3.0	uuf
Deflecting plates x" to y"	3.0	uuf

MAXIMUM RATINGS (Absolute values)

Anode No.3 voltage	6000	volts
Anode No.2 voltage	1100	volts
Anode No.1 voltage	2500	volts
Grid No.1 voltage		
Negative	150	volts
Positive	0	volts
Cathode current	300	μamp
Heater to cathode voltage	±150	volts
Grid No.1 resistor	1.5	megohms

CHARACTERISTICS

Anode No.3 voltage	5000	volts
Anode No.2 voltage	600 to 700	volts
Anode No.1 voltage	1800	volts
Grid No.1 voltage	-25 to -70	volts
Sensitivity		
x plates	0.19	mm/volt
y plates	0.21	mm/volt

DEFLECTION SENSITIVITY LIMITS

X plates	$\frac{850 \text{ to } 1000}{V_{a3}}$	mm/volt
Y plates	$\frac{900 \text{ to } 1100}{V_{a3}}$	mm/volt