

5FP7-A

OSCILLOGRAPH TUBE

MAGNETIC FOCUS MAGNETIC DEFLECTION

DATA]
General:	l
Heater, for Unipotential Cathode: Voltage 6.3 ac or dc volts Current 0.6 amp Direct Interelectrode Capacitances: Grid No.1 to All Other Electrodes 8	4-
Persistence of Phosphorescence . Long Focusing Method Magnetic Deflection Method	
Pin 1 - No Connection Pin 2 - Heater Pin 3 - Grid No. 2 Pin 4 - No Connection Connection Pin 8 - Heater Cap - Anode	
Maximum Ratings, Design-Center Values: ANODE VOLTAGE. 8000 max. volts GRID-No.2 VOLTAGE. 700 max. volts	
GRID—No.1 VOLTAGE: Negative bias value	
Typical Operation: Anode Voltage** 4000 7000 volts Grid-No.2 Voltage 250 250 volts	
** At or near this rating, the effective resistance of the anode supply should be adequate to limit the anode input power to 6 watts. ** Brilliance and definition decrease with decreasing anode voltage. In general, the anode voltage should not be less than 4000 volts.	

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	Grid-No.1 Voltage ^o	-25 to -70	-25 to -70	volts
>	Grid-No.2 Current	-15 to +15	-15 to +15	μamp
	Focusing-Coil Current (DC, approx.)#			
•	(DC, approx.)#	96 ± 15%	128 ± 15%	ma
	Spot Position	##		l

Maximum Circuit Values:

Grid-No.1-Circuit Resistance 1.5 max. megohms

- For visual extinction of undeflected focused spot.
- For specimen focusing coil similar to JETEC Focusing Coil No.106 positioned with air gap toward face plate, and center line of airgap 2-3/4 inches from Reference Line (see Outline Drawing), and total anode current of 200 microamperes.
- ## The center of the undeflected, unfocused spot will fall within a circle having 9-mm radius concentric with center of tube face.

OPERATING NOTES

The 5FP7-A utilizes a long-persistence, cascade (two-layer) screen which exhibits bluish fluorescence of short persistence and greenish-yellow phosphorescence.

Because of its long persistence, the 5FP7—A is particularly useful where either low-speed non-recurring phenomena or high-speed recurring phenomena are to be observed. Furthermore, two or more phenomena can be observed simultaneously on the screen by means of a suitable switching arrangement.

The persistence is such that the 5FP7-A without filter can be operated with scanning frequencies as low as 30 cycles per second without excessive flicker. When used with yellow filter, such as Wratten No.15 (G), the 5FP7-A can be operated with much lower scanning frequencies.

In general, operation of the 5FP7-A at an anode voltage below 4000 volts will not give persistence of useable brightness.

OUTLINE DIMENSIONS for Type 5FP7-A are the same as those for Type 5FP4-A

AVERAGE CHARACTERISTIC CURVE for Type 5FP7-A is the same as that shown for Type 7BP7-A

→indicates a change.