

5FP7-A

OSCILLOGRAPH TUBE

MAGNETIC FOCUS

MAGNETIC DEFLECTION

	DATA		
	General:		
	Heater, for Unipotential Cathode: Voltage 6.3 ac or dc Current 0.6		←
	Phosphor (For Curves, see front of this Section) Fluorescence	P7 Blue ellow Long netic netic 53°	
١	Overall Length	3/32" -1/4" Any 1-22) 8-65)	
	Pin 1-No Connection Pin 2-Heater Pin 3-Grid No.2 Pin 4-No Connection Connection Pin 5-Grid No.1 Pin 6-No Connection Pin 7-Cathode Pin 8-Heater Cap - Anode		
	Maximum Ratings, Design-Center Values: ANODE VOLTAGE	volts	
		volts	
-	Negative bias value 180 max.	volts	
	Positive bias value* 0 max. Positive peak value 2 max.	volts volts	
		volts	
	Heater negative with respect to cathode. 125 max.	volts volts	
	Typical Operation:		
	J	volts volts	
	* At or near this rating, the effective resistance of the anode should be adequate to limit the anode input power to 6 watts. ** Brilliance and definition decrease with decreasing anode voltage general, the anode voltage should not be less than 4000 volts.		
			1

Indicates a change.





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

Maximum Circuit Values:

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

- O 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.