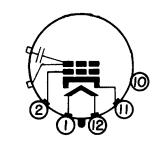
TECHNICAL INFORMATION

CATHODE RAY TUBE

TYPE **5AKP24**



12G

BOTTOM VIEW

The 5AKP24 is a flying spot scanner cathode ray tube, employing magnetic focus and deflection. This type features high resolution and a metal backed screen for high brightness. The external coating on the neck of the tube should be connected to ground to prevent corona between the yoke and neck. An external insulating coating on the bulb cone reduces arcing over the bulb.

MECHANICAL DATA

MINIMUM USEFUL SCREEN DIAMETER

(Maximum assured diameter) 4 1/4 Inches BASE: B5-57 BASING: 12 G ANODE CONTACT: J1 - 21

ANODE CONTACT ALIGNS WITH VACANT PIN #3 ± 10 °

TERMINAL CONNECTIONS:

Pin 1 Heater Pin 11 Cathode Pin 2 Grid #1 Pin 10 No Connection Pin 12 Heater

Grid #2, Anode (Note 4) Сар

MOUNTING POSITION: Any

GENERAL DATA

Phosphor Number Fluorescent Color Light Green Persistence Extremely Short Focusing Method Maanetic Deflecting Method Magnetic Deflection Angle, approximate 50 degrees

ELECTRICAL DATA

DIRECT INTERELECTRODE CAPACITANCE:(approx.) (µµfds)

Cathode to all	3.5	
Grid #1 to all	4.0	
External Coating Capacitance	100	min.
	500	max.
MAXIMUM RATINGS: (Design Center Values)		

Heater Voltage

6.3 volts .60±10% amperes Heater Current at 6.3 Volts Anode Voltage 40,000 volts DC Grid #1 Voltage Negative Bias Value 350 volts DC Positive Peak Value 2 volts 0 volts DC Positive Bias Value Peak Heater-Cathode Voltage (Note #1) Heater Negative with Respect to Cathode
During Warmup Period not to exceed 15 Sec.
After Equipment Warmup Period 410 volts 180 volts Heater Positive with Respect to Cathode 180 volts

CHARACTERISTICS AND TYPICAL OPERATION:

30,000 volts Anode Voltage Grid #1 Voltage (Note #2) -80 to -140 volts Ma. Focusing Coil Current, approximate (Note #3) 250

MAXIMUM CIRCUIT VALUES:

Grid #1 Circuit Resistance 1.5 megs.

Tentative Data

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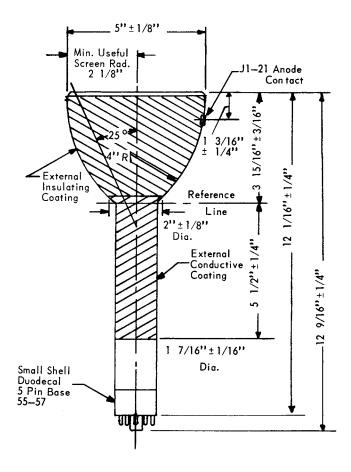


CATHODE RAY TUBE

NOTES:

- Note 1 Cathode should be returned to one side or to the mid-tap of the heater transformer winding.
- Note 2 For visual extinction of the undeflected focused spot.
- Note 3 For standard focus coil JEDEC #106 or equivalent, with the combined Grid #1 bias voltage and video signal voltage adjusted for 200 microamperes of anode current.

- Note 4 The anode contact aligns with vacant pin position #3, $\pm 10^{\circ}$.
- Note 5 The reference line is determined by the position where the reference line gauge JEDEC #112 rests against the funnel. The center line of the bulb will not deviate more than 2° in any direction from the perpendicular erected at the center of the bottom of the base.



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