

TYPE 5BCP- CATHODE-RAY TUBE

The SBCP- is a 5-inc; magnetic focus and magnetic deflection cathode-ray tube suitable for radar use. It features a small diameter neck and short overall length to permit its use in small, compact equipment.

CENERAL CHARACTERISTICS

Electrical Data

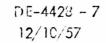
Focusing Method Deflecting Method Deflecting Angle, Approx.			ignetic ignetic	Degrees
Direct Interelectrode Capacitances, Approx. Cathode to all other electrodes Grid #1 to all other electrodes Optical Data		3.5 3.5		µµf µµf
Phosphor Number Fluorescent Color Phosphorescent Color Persistence	1 Green Medium	4 White Medium	7 Blue Yellow Long	11 Blue Short

Faceplate Mechanical Data

Cverall Length (Scated Height) Greatest Diameter of Bulb Minimum Useful Joreen Diameter	7 ± 1/4 4.950 ± .050 4 1/4	Inches Inches Inches
Bulic Contact Base Basing * Bulic Contact Alignment:	J1-22 E9-37 9HD	
Plane of J1-22 Contact passes halfway between Pins #1 and #9 J1-22 Contact on same side as Pins #1 and #9	± 10	Degrees

A socket with a center opening to clear the tubulation should be used. Care should be taken in randling the tube to avoid damaging the exposed tubulation and bending the base pins.

RESTRICTED-23





WPS Document Control

Clear



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RATINGS (Design Center Values)

Heater Voltage	6.3	Volts
Heater Current at 6.3 Volts	0.3 ± 10%	Ampere
Accelerator Voltage	10,000	Max. Volts DC
Accelerator Input	6	Max Watts
Grid #1 Voltage		
Negative Bias Value	200	Max. Volts DC
Positive Bias Value	0	Max. Volts DC
Positive Peak Value	0	Max. Volts
Peak Heater-Cathode Voltage		
Heater negative with respect to cathode	180	Max. Volts
Heater positive with respect to cathode	180	Max. Volts

TYPICAL OPERATING CONDITIONS

Accelerator Voltage	6000	8000	Volts DC
Grid #1 Voltage ¹	-19 to -56	-25 to -75	Volts DC
Line Width A ²	.013	.011	Inch Max.
Focusing Coil Current ³	48 to 72	56 to 84	mA. DC
Spot Position (Undeflected) ⁴	1/4	1/4	Inch

MAXIMUM CIRCUIT VALUES

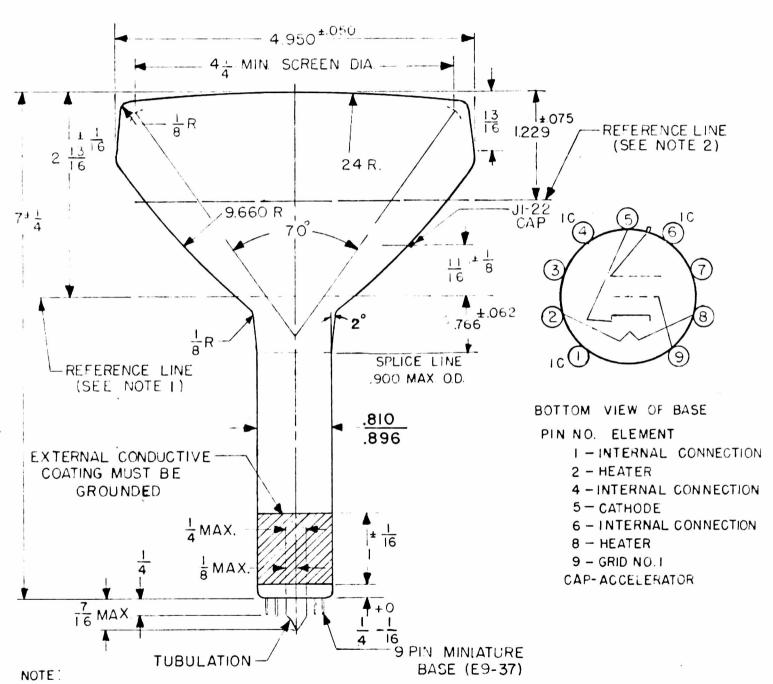
Grid #1 Circuit Resistance	1.5	Max. Megohms
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NOTES

- 1. Visual extinction of undeflected, focused spot.
- 2. Measured in accordance with MIL-E-1 specifications, at $1b = 200 \mu a$
- For JETEC Focus Coil #127, or equivalent, with the Grid #1 bias voltage adjusted to produce a beam current of 200 μα. Distance from reference line to center of gap on focus coil shall be 2 3/8 inches.
- 4. The center of the undeflected, unfocused spot will fall within a circle of 1/4-inch radius concentric with the center of the tube face, with the tube shielded.

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- I-REFERENCE LINE-DETERMINED BY THE POINT WHERE LEADING EDGE OF 1.640" REFERENCE LINE GAUGE WILL STOP.
- 2 REFERENCE LINE-DETERMINED BY THE POINT WHERE LEADING EDGE OF A 4.625" ±.002" RING GAUGE WILL STOP