

CHARACTERISTICS

GENERAL DATA

Focusing Method	Electrostatic
Deflection Method	Magnetic
Deflection Angle (approx.)	40 Degrees
Types*	

	5ZP15	5ZP16	5ZP24
Fluorescence	Blue-Green	Violet & Near Ultraviolet	Blue-Green
Persistence	Extremely Short	Extremely Short	Extremely Short
Screen			Aluminized
Faceplate		Clear, Non-Browning	

*In addition to the types shown, the 5ZP- can be supplied with several other screen phosphors.

ELECTRICAL DATA

Heater Voltage	6.3 Volts	
Heater Current	0.6 ± 10% Ampere	
Direct Interelectrode Capacitances (approx.)		
Cathode to All Other Electrodes	8 μμf	
Grid No. 1 to All Other Electrodes	5 μμf	
External Conductive Neck Coating to Anode ¹	500 μμf	Max.
	100 μμf	Min.

MECHANICAL DATA

Minimum Useful Screen Diameter	4 1/4 Inches
Bulb Contact (Recessed Small Cavity Cap)	J1-21
Base (Small Shell Duodecal 7-Pin)	B7-51
Basing	12C
Bulb Contact Aligns with Vacant Pin	
Position No. 3	±10 Degrees

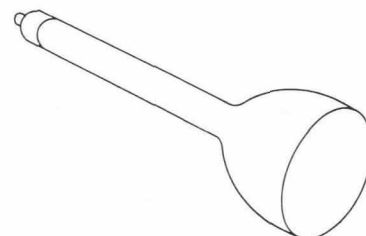
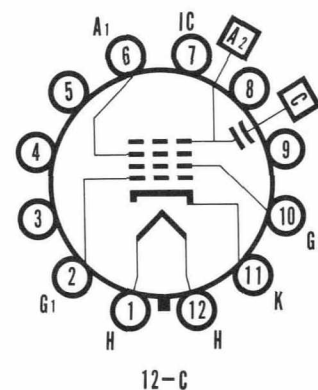
RATINGS

MAXIMUM RATINGS (Absolute Maximum Values)

Anode No. 2 Voltage	30,000 Volts	dc
Anode No. 1 Voltage (Focusing Electrode)	7,700 Volts	dc
Grid No. 2 Voltage	385 Volts	dc
Grid No. 1 Voltage		
Negative Bias Value	165 Volts	dc
Positive Bias Value	0 Volts	dc
Positive Peak Value	2 Volts	
Peak Heater-Cathode Voltage		
Heater Negative with Respect to Cathode		
During Warm-up Period		
Not to Exceed 15 Seconds	450 Volts	
After Equipment Warm-up Period	165 Volts	
Heater Positive with Respect to Cathode	165 Volts	

QUICK REFERENCE DATA

Flying Spot Scanner Tube
5" Round Glass Type
Flat Faceplate
Clear Non-Browning Faceplate
Magnetic Deflection
Acceleration Type Electrostatic
Focus
No Ion Trap
External Conductive Coating on Neck
External Insulating Coating on Bulb
Aluminized Screen



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TYPICAL OPERATING CONDITIONS

Anode Voltage ²	27,000 Volts	dc
Anode No. 1 Voltage for Focus at $I_b = 15 \mu a$	5550 to 7050 Volts	dc
Grid No. 2 Voltage	200 Volts	dc
Grid No. 1 Voltage Required for Cutoff ³	-42 to -98 Volts	dc
Anode Current	15 μa	dc
Maximum Anode No. 1 Current at $I_b = 15 \mu a$	25 μa	dc
Grid No. 2 Current	-15 to +15 μa	dc

CIRCUIT VALUES

Grid No. 1 Circuit Resistance	1.5 Megohms Max.
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NOTES:

1. External conductive neck coating must be grounded.
2. Brilliance and definition decrease with decreasing anode voltage. In general, the anode voltage should not be less than 20,000 volts.
3. Visual extinction of undeflected focused spot.

DIAGRAM NOTES:

1. Reference line is determined by the plane C-C' of the reference line gauge (JETEC No. 110) when the gauge is resting on the glass cone.
2. External conductive coating must be grounded.

WARNING:

X-ray radiation shielding may be necessary to protect against possible danger of personal injury from prolonged exposure at close range if this tube is operated at higher than the manufacturer's Maximum Rated Anode Voltage or 16,000 volts, whichever is less.

