

7CP7

Z-4432
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Z-4432

CATHODE-RAY TUBE

7-INCH ROUND, GLASS	FACEPLATE -- SPHERICAL, CLEAR
FOCUS -- ELECTROSTATIC	HIGH-RESOLUTION GUN
DEFLECTION -- MAGNETIC	PERSISTENCE -- LONG
57-DEGREE DEFLECTION ANGLE	

DESCRIPTION AND RATING

The Z-4432 is an electrostatic-focus and magnetic-deflection cathode-ray tube for oscillographic applications requiring a long persistence.

GENERAL

ELECTRICAL

Heater Voltage	6.3	Volts
Heater Current	0.6 + 10%	Amperes
Focusing Method -- Electrostatic		
Deflecting Method -- Magnetic		
Deflection Angle, approximate.	57	Degrees
Direct Interelectrode Capacitances, approximate		
Cathode to All Other Electrodes	6.5	uuf
Grid-No. 1 to All Other Electrodes.	8.0	uuf

OPTICAL

Phosphor Number -- P7
 Fluorescent Color -- Blue-White
 Phosphorescent Color -- Yellow
 Persistence -- Long

Faceplate -- Clear

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MECHANICAL

Over-all Length 13-7/16 ± 3/8 Inches
Greatest Bulb Diameter 7 ± 1/8 Inches

Minimum Useful Screen Diameter 6-1/2 Inches

Bulb Number, ASA Designation -- J56E
Bulb Contact -- Recessed Small-ball Cap, JETEC No. J1-22
Base -- Long Medium Shell Octal, 8 Pin, JETEC No. B8-65
Basing, JETEC Designation -- 6AZ
Bulb Contact Alignment
 Anode Contact Aligns with Pin No. 2 ± 10 Degrees

Mounting Position -- Any

MAXIMUM RATINGS

DESIGN-CENTER VALUES *

Anode Voltage 8000 Max Volts DC
Focusing-Electrode Voltage 2400 Max Volts DC
Grid-No. 2 Voltage 300 Max Volts DC
Grid-No. 1 Voltage
 Negative-Bias Value 125 Max Volts DC
 Positive-Bias Value 0 Max Volts DC
 Positive-Peak Value 2 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

Anode Voltage + 7000 Volts DC
Focusing-Electrode Voltage for Focus 955 to 1780 Volts DC
Grid-No. 2 Voltage 250 Volts DC
Grid-No. 1 Voltage ‡ -22.5 to -67.5 Volts DC
Spot Position ** 15 mm

MAXIMUM CIRCUIT VALUES

Grid-No. 1 Circuit Resistance 1.5 Max Megohms

* The maximum ratings provide a ten percent safety factor in accordance with the standard design-center system of rating cathode-ray tubes. The tube will withstand the combined effects of variations in line voltage and components provided the maximum design-center values are not exceeded by more than ten percent.

- + Brightness and focus quality decrease with decreasing anode voltage. In general, the anode voltage should not be less than 4,000 volts.
- # For visual extinction of undeflected focused spot.
- ** The center of the undeflected, unfocused spot will fall within a circle of 15 millimeters radius concentric with the tube face.

Cathode-Ray Tube Sub-Department

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Syracuse, N. Y.